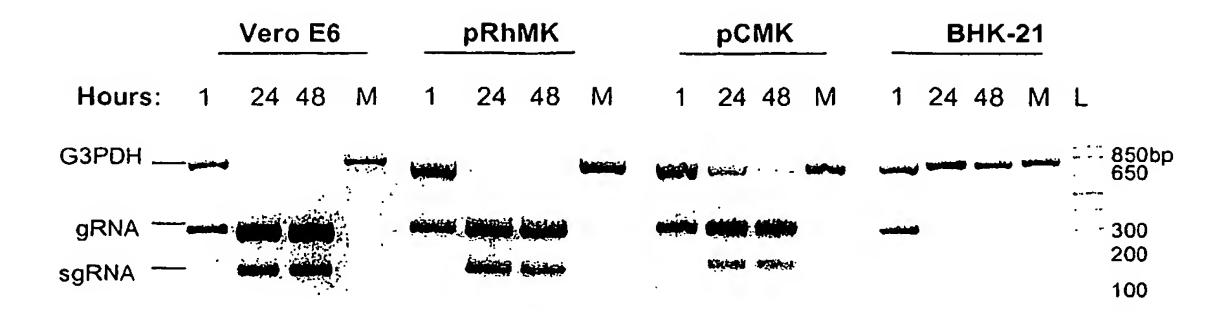


FIG. 1

A.



B.

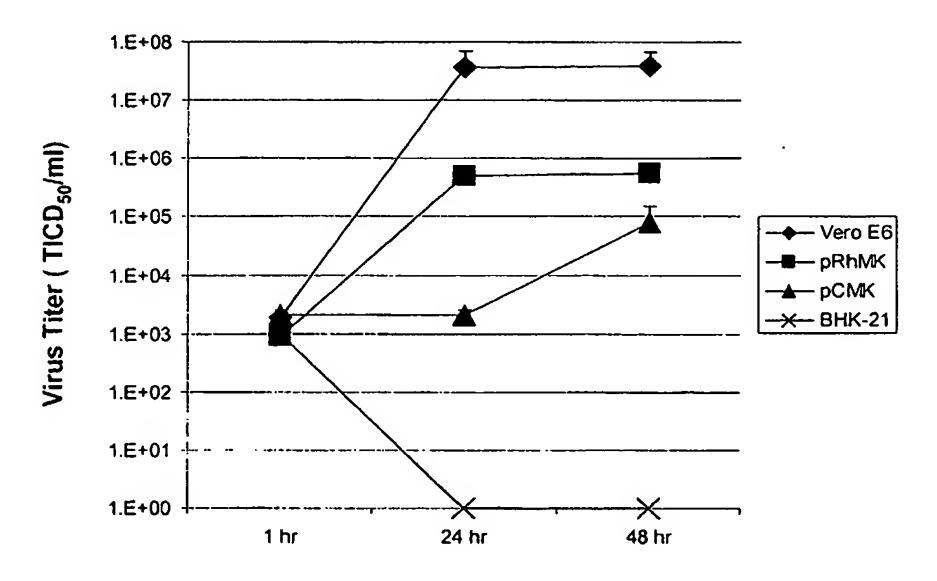
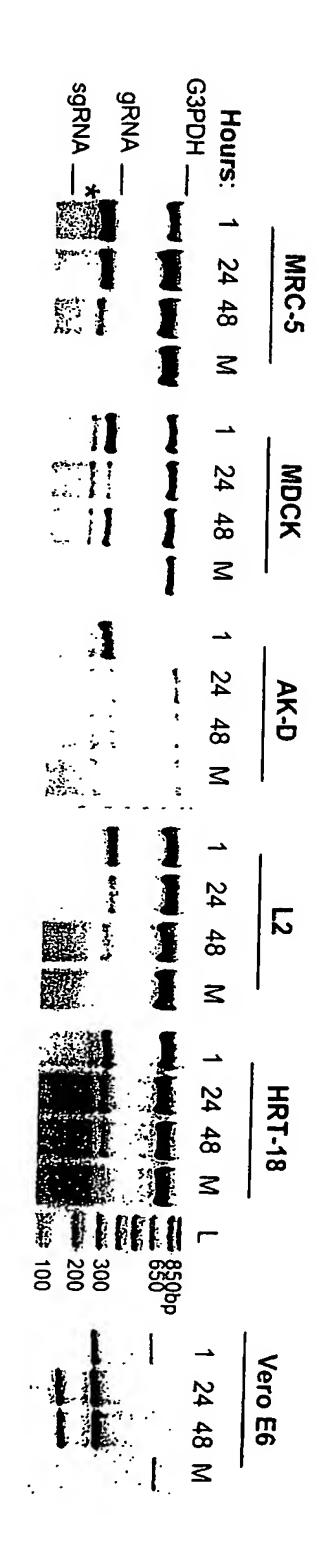
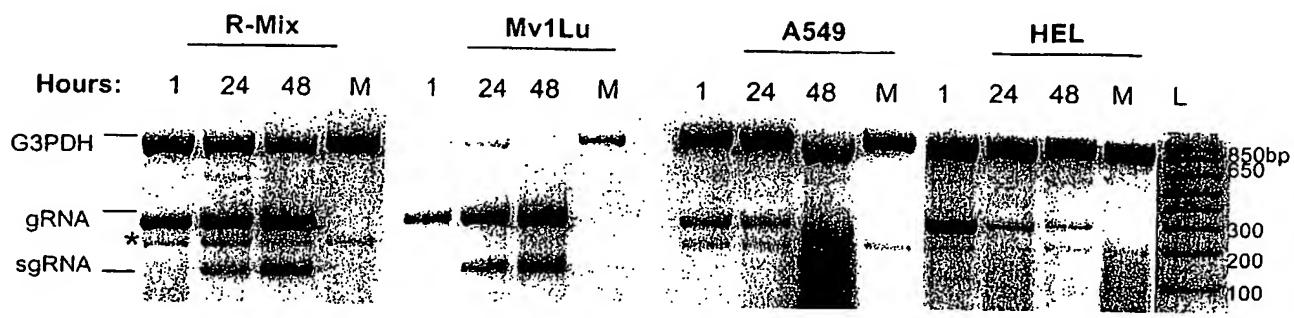


FIG. 2.

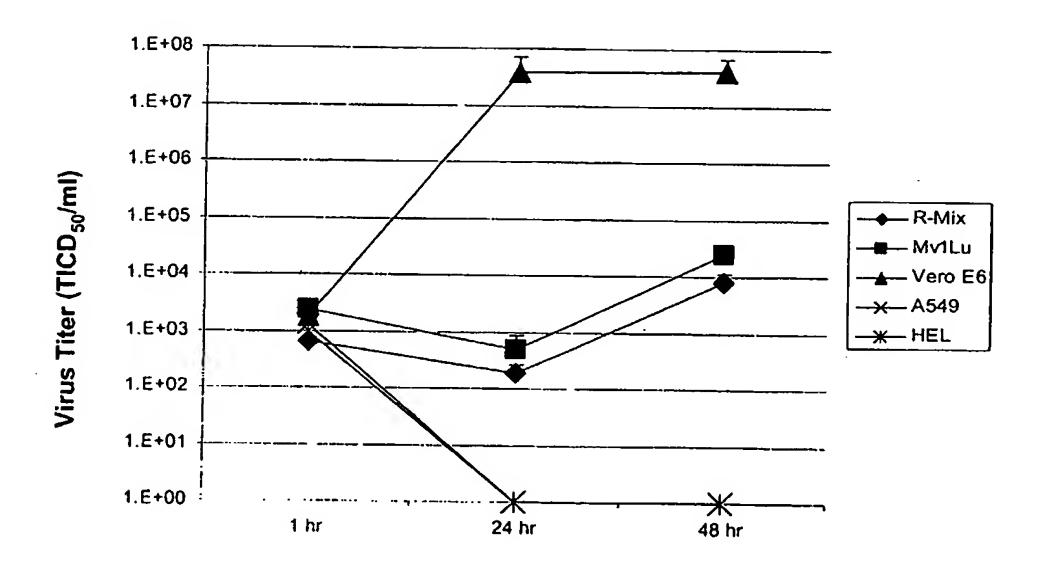
FIG. 3







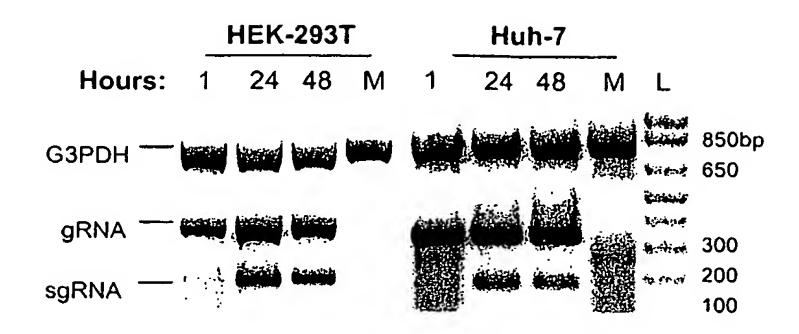
B.



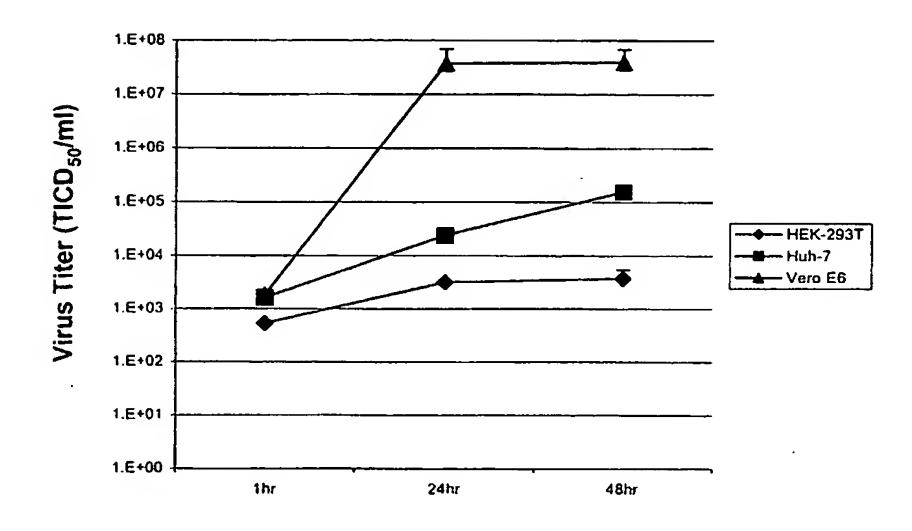
Hours Post Inoculation

FIG. 4.

A.



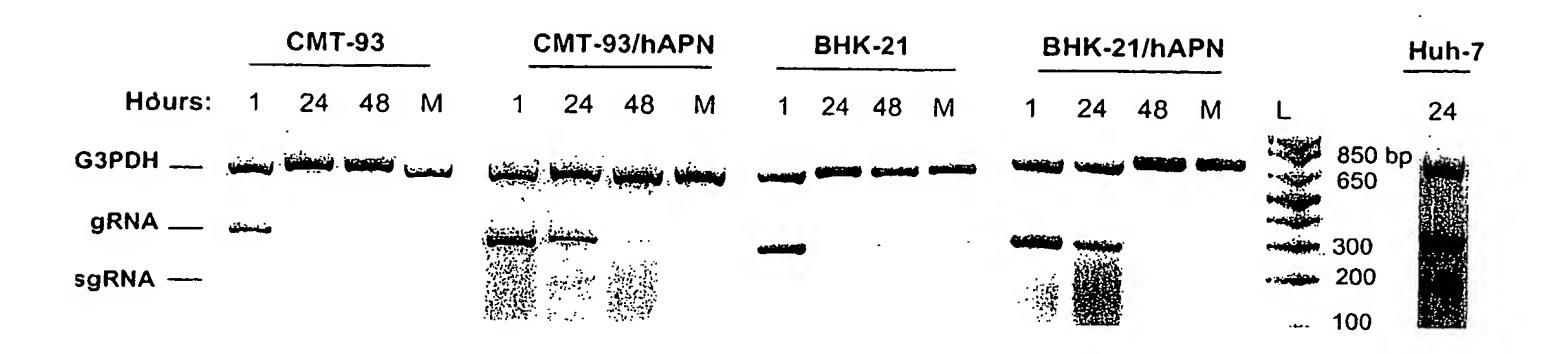
B.



Hours Post-inoculation

FIG. 5.

A.



B.

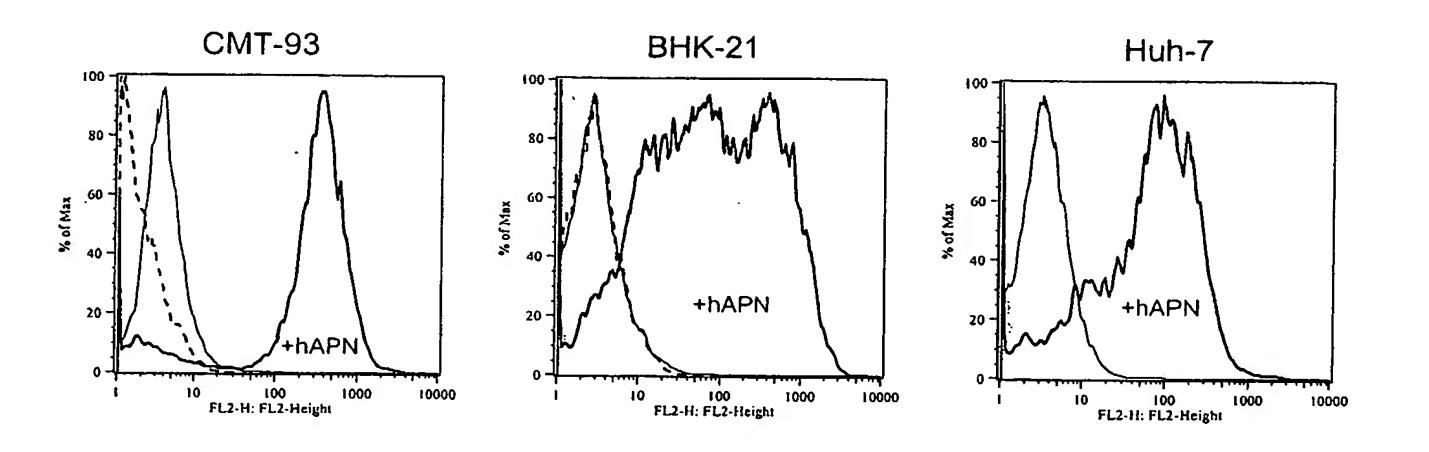


FIG. 6.

FIGURE 7A

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	1 atattaggt	t tttacctac	c caggaaaag	c caaccaacct	cgatctctt	g tagatctgtt
6	l ctctaaacg	a actttaaaa	t ctatataac	t atcactcaa	tocatocot	a gtgcacctac
12:	l gcagtataa	a caataataa	a ttttactor	c attacasa	a agrange of	c tegtecetet
18:	l tctgcagac	t gottacggt	t teatecata	t tooostass	a aacyaytaa(cegreeerer
24	atccapata	t daccdaaac	a tabastas	t tycagicgat	catcagcata	cctaggtttc
30.	l cacetees	s tackyanage	y caayatgga	g agcettgtte	ttggtgtcaa	a cgagaaaaca
	- vacyttaai	- chagillege	u uqueettea	a attadadaro	i tacteatacc	r taaattaaa
	- 340000303	g aagaggccci	L alcygaggc	a cutuaacacc	, tcaaaaataa	r coattates
	· ccagcagaga	- cyyaaaaay	4 CALACEGES	c cadettdaac	' adccctatat	- attactec
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601	L gaaaccccaa	a tigcatacco	caatottot	t cttcataaga	accegige	gggagccggt
661	ggtcatagct	atggcatcga	a totagadto	t tatoacttae	acyguaataa	tggcactgat
721	. cccattgaac	ı attatoaac	a aaactooaa	c catgacttag	gryacgaget	tggcactgat
781	ctcactcata	, accuegaace	a adactygaat	actaagcatg	gcagtggtgc	actccgtgaa
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	. acacccttcg	, aaattaayat	luccaadaaa	i Ettgacactt	trasadddda	ataaaaaaa
	ceegegeeee	Clicaact	aaaaqtcaaa	a gicaticaac	cacatattas	222722222
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1261	acqtqcqact	ttctgaaagc	: cacttotoa	cettataaa	gegatgaagt	agttattgaa
1321	ggacctacta	catgtgggta	cctacctact	categogea	ccgaaaaccc	agttattgaa
1381	tgtcaagacc	cagagattgg	acctaacaat	aatgctgtag	Lyaaaatgcc	atgtcctgcc
1441	attgaaactc	gacteege	accegageae	agtgttgcag	attatcacaa	ccactcaaac
1501	tatattaact	gattataataa	gggaggragg	actagatgtt	ttggaggctg	tgtgtttgcc
		yccacaataa	quatacctac	: caaatteete	atacteatac	tastattasa
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	aucugegeea	ccaccatggc	acacqtaact	aataatetta	tacaacacac	ttatasataa
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2341	gtcactatcg	ctggcgcaaa	attacastcs	ctcaacttag	atasaatat	cattgatcaa
2401	agcaagggac	tttaccotca	atatatacat	cccaacttag	grgaagreer	categereaa
2461	cttaaggcac	Caaaadaadt	ascattatt	ggcaaggagc	agetgeaact	actcatgcct
2521	tetgaggagg	ttattatas	aacctttttt	gaaggtgatt	cacatgacac	agtacttacc
2581	ttcacaaata	Gagatatagt	gaacggcgaa	ctcgaagcac	tegagaegee	cgttgatagc
2641	attaaccac	gagetategt	Lygcacacca	gtctgtgtaa	atggcctcat	gctcttagag
2701	tttaaatta	aayaacaaca	ctgcgcattg	tctcctggtt	tactggctac	aaacaatgtc
2701	ceegeeeaa	aagggggggg	accaattaaa	aatataacct	ttaaaaaaa	taatatttaa
	Jaageeeaag	yuuacaayaa	LYLYAGAAEC	acattroacc	ttgatgaacg	tattanana
	gegereaaty	aaaaytyctc	tatctacact	<u> </u>	ataccasact	t a ata a a a ta ta ta
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3121	acagaggatg	attatcaagg	teteceteta	gaatttggtg	catasaatas	cgagtacggt
3181	gttgaggaag	aagaagagga	agactggctg	gatectggtg	cttcagetga .	aacagttcga
3241	CCagaaccag	aacctacacc	tgaagaaga	gatgatacta	ctgagcaatc .	agagattgag
3301	actoacasto	ttaccettee	eyaayaacca	gttaatcagt	ctactggtta	tttaaaactt
J J V I	acegacaatg	Ligitatiaa	acquattaac	accottaago .	addcacaaad '	tactastact
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· · · ·	cedacaagg	caaccaatyy	luccatucaa	aaddadaata	atdattadat (	taadataaat
	JJUUUUUU	caytayyayy	arcratte	CTTTCTGGAC 2	ataatettee 1	taadaadtat
	cegeacycey	Liggacciaa	cctaaataca	ggtgaggaga i	CC200	taaddaadaa
2 O O T	cargaaaatt	ccaattcaca	ggacatctta	cttgcaccat (	tgttgtcagc a	aggcatattt

### FIGURE 7B

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366	l ggtgctaaad	cacttcagto	tttacaaqto	tqcqtqcaqa	caattcatac	acaggtttat
J/Z.	i actycagtea	a cyacaaago	ccccatgad	7 caqqttqtca	tagattatet	: tgataacctg
370.	r aaguttagag	g tggaagcaco	taaacaagag	g gagccaccaa	acacagaaga	ttccaaaact
304.	r yayyayaaat	cigicgiaca	a gaagcctgt	: gatgtgaagc	caaaaattaa	ggcctgcatt
390	r gargaggtta	ccacaacact	ggaagaaact	aagtttctta	ccaataaqtt	actcttgttt
396:	i yelgatatça	ı atggtaaget	: ttaccatqat	: tctcagaaca	tacttagago	tgaagatatg
4023	recette	, agaaggatgo	: accttacato	y qtaqqtqatq	ttatcactac	tagtaatata
4007	i actigigitg	, caacacccc	: caaaaaggct	ggtqqcacta	ctgagatgct	ctcaagagct
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6541	gccttaggtt	taaaaacaat	tgccactcat	ggtattgctg	caattaatag	tatteettaa
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684I	aattatgtga	agtcacccaa	attttctaaa	ttattcacaa	tegetatoto	actattatta
<b>690T</b>	ttaagtattt	gcttaggttc	tctaatctgt	qtaactqctq	cttttaatat	acticttatict
OAOT	aattttggtg	ctccttctta	ttgtaatggc	gttagagaat	tgtatcttaa	ttcqtctaac
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/141	ctagacttga	caattttagg	tetggeeget	gagtgggttt	toocatatat	attattcaca
1201	aaattcttt	atttattagg	tettteaget	ataatqcaqq	tattctttaa	ctattttgct
/26I	agccatttca	tcagcaattc	ttggctcatg	tggtttatca	ttagtattgt	acaaatggca
	•					

### FIGURE 7C

7321 cccgtttctg caatsgytag gatgacact tetettgett ctttctacta catagggar 7321 agctatgtte aatscatgga tggttgacaact attgetaatt gcatgatgt cttataageg 7321 gctatgcaa atggaggeg tggettettet gaagactacaa attggatgatg tetetaattg 7321 gcatactaatt gcactggtag tacatteatt agtgatgaaa tttetetaat 7321 cagtttaaaa gaccaatcaa ccctacttet gacaaggag ttggteaaaaaa 7321 cagtttaaaa gaccaatcaa ccctacttet gacaaggag ttggtacaaaaa 7321 cagtttaaaa gaccaatcaa ccctacttet gacaaggag ttggtagaaa 7322 catagtagaa 7323 cagttaaaaa gaccaatcaa 7323 cagtacaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa		7221						
7301 agctactic alaccatga gightgacc tottogact goatgatgig otataagg; 7301 stotatgaca atggaggoeg tggettetg aagactoaca attggaattg tottcaattg; 7301 goacacttic goatggaggoeg tggettetg aagactoaca attggaattg tottcaattg; 7301 goacacttic goatggaggoeg tggettetat at gightgagaag ttgetcagaggaggatgaggaggatgagaggatgagaggatgagagatgagagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagatgagagagatgagagagatgagagagatgagagagagagagagagagagagagagagagagagagaga		7361	cooguteet	g caatggttag	g gatgtacato	c ttctttgct	t ctttctacta	a catatggaag
7451 gictatgosa alggagges gigtacaact attgitaitg gcatgaagag dicttict; 7561 gacacattit gcactgitag tacattest agigatgaag tigtacetgi tittgiaatg 7561 gacacattit gcactgitag tacattest agigatgaag tigtetegiag techniques 7661 gigtaaaaaa gaccaatcaa coctactgic gacaaggetg gicaacaaga charggagge 7661 gigtaaaaaa gaccaatcaa coctactit gacaaggcig gicaacaaga charggagga 7671 clocotatta aigicatagi tittigaaga aagicaaaca gagaagagte totagaggag 7671 clocotatta aigicatagi tittigaaga aagicaaaca gagaagagte tittigagag 7671 clocotatta aigicaagaa 7671 clocotagagaggitigi 7671 clocotagagagagagagagagagagagagagagagagagagag		1201	. agctatgtto	c atatcatgga	a tggttgcaco	c tcttcgacti	t gcatgatgt	ctataagggg
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10741 Ctttctgctc aaacaggaat tgccgtctta gatatgtgtg ctgctttgaa agagctgctg 10801 cagaatggta tgaatggtcg tactatcctt ggtagcacta ttttagaaga tgagtttaca 10861 ccatttgatg ttgttagaca atgctctggt gttaccttcc aaggtaagtt caagaaaatt 10921 gttaagggca ctcatcattg gatgctttta actttcttga catcactatt gattcttgt	1	10681	gtggcaatga	agtacaacta	tgaaccttta	acacaagato	atottoacat	attoggaget
10801 cagaatggta tgaatggtcg tactatcctt ggtagcacta ttttagaaga tgagtttaca 10861 ccatttgatg ttgttagaca atgctctggt gttaccttcc aaggtaagtt caagaaaatt 10921 gttaagggca ctcatcattg gatgctttta actttcttga catcactatt gattcttgt	1	10741	ctttctgctc	aaacaqqaat	taccatetta	gatatototo	ctactttass	agaggtggt
10861 Ccattegatg tegetagaca atgetetggt gttacettee aaggtaagtt caagaaaatt 10921 gttaagggca etcateattg gatgetttta aetttettga eateactatt gattettgt	1	10801	cagaatqqta	tgaatgatca	tactatectt	ggtaggagta	tttagaaga	tractttace
10921 gttaagggca ctcatcattg gatgctttta actttcttga catcactatt gattcttgtt	J	10861	ccatttqatq	ttqttagaca	atactctagt	attacettee	aacotaactt	caacaaaab
10981 caaagtacac agtggtcact gttttcttt gtttacgaga atgctttctt gccatttact	ן	10921	gttaaqqqca	ctcatcatta	gatgetttta	actttcttc	Catcactatt	caayaaaatt
	]	0981	caaaqtacac	agtggtcact	atttttatt	attracere	atootte	gactuctgtt
•	_	<del></del>		-3-334		guuacyaya	arguittett	gecatttact

# FIGURE 7D

7704	7					
1104	1 cttggtatt	a tggcaattg	c tgcatgtgc	t atgctgctt	g ttaagcataa	a gcacgcattc
	3-3-0-05	- LLLLAL	C CCCCCLCCC	a acaderoce	t 30tttases	
1116	1 cctgctagc	t gagtaatac	g tatcatgac	a togettenn	t territor	c tagettgtet
1122	1 ggttatagg	c ttaaddatt	a tattatata	a cyyceryaa	L tygctgaca	c tagettgtet
1128	1 acadeted	o ccaaggace	g tyrracyta	c getteaget	t tagttttgct	tagettgtet tatteteatg
— <del>-</del>		u cogoloaca	a Lualuctor	t adacdroft	t dasasatast	
	- ~~~~	t ataaautti.	a clarooraa	r		
		c ccycaacce	t Laattantc	E dararearr	2 <i>C</i> C2Ct2t2c1	• <b></b>
1146	1 agagetata	a tatttatat	a tattasats	t taggette	a cyactateat	gtttttaget
1152	1 tracactor:	e teatestes	t the track	- Lacecattgi	t tatttattac	tggcaacacc
		a ccatqcttq	L LLALLOTTT	r rrammersti	P	
		L LALLLAALL	u Llacircadi	3 CEPSAFAFF,	~ ~+~++~~~~	4
		4 aatttauut	a Latuaacre	T CAMMMMCH FI	- +~~~+~~+	
		a ugulladig	t taauttuiii	i uorarroma <i>n</i>	7 772227726	
1176	l gctactqtad	c agtctaaaa	t atctaacat	a ageneegga	g gradactate	geteteggtt
1182:	l cttcaacaac	ttagagtaga	e atastatta	aaguguatat	- cigiggtact	geteteggtt
11881	l aatmatatto	ttattan	a gudatuttu	- aaattgtggg	g cacaatgtgt	acaactccac
	- ~~~~~~~~~~	- LLULLYCAC	a auacacaaci	T GAAGCEFFC	1 2022001	
		- Lactedcyce	a ggglactatia	i dacarraara	) aattataaa	~~~~~
	- 3~~~~~	g CLACLCLLC	a guctattoci	. ccadaartta	) <u>attattetaaa</u>	
	- 9000000	a cuquudayya	i uucctataa	I Caddetatae	i ctaatootoo	* * ~ * ~ * ~ * * * * * * * * * * * * *
12121	L gttctcaaaa	agttaaagaa	atctttcast	t ataggets see	s ctaatggtga	ccgtgatgct
12181	l gccatgcaac	' gcaagttgg	acceregaat	grygeraaar	. ctgagtttga	ccgtgatgct
12241	deagateto	, godageegge	aaayatyyca	gattaggeta	tgacccaaat	gtacaaacag
	- 30445466	, ayyacaayac	, qucaaaam.a	Larrageger		~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
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	3-5-6-6-46	· ccaacatcat	. accalegaet	202002000		الماري المارية والمراجعة والمراجعة والمراجعة والمراجعة
			. Cacludium.	COURARCACE		~ <del>*</del> ~ <del>*</del> ~ ~ ~ ~ ~
12481	l tgggaaatcc	agcaagttgt	tgatgcggat	accaacatto	ttcaacttag	accegeacce
12541	. atggacaatt	caccaaattt	gacttagaat	attattet	cucaacitag	tgaaattaac
12601	actattaaac	tacacaatta	tasset	citategeta	cagetetaag	agccaactca
12661	getgetadde	Gacagaataa	Lyaactgagt	ccagtagcac	tacgacagat	gtcctgtgcg
	, <u> </u>	- cacaaacay	LLULACIOAT	gacaardcac	- ととのひひとっかとへ	* ~ ~ ~ ~ ~ <del>* * * * * * * * * * * * * *</del>
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	. Jeegeaaga	gracycac	auglacaarr	- Facacadaac	taasaasaa	* * ~ L L L
	. Juliana	Caccaaaayy	quulaaauto	aaaracttat	2011021022	2000
12901	aacctaaata	gaggtatggt	actagaceat	ttaggtggt	accidateda	aggettaaae
12961	aatgctacag	aagtaggt	geeggeage	tragergera	cagtacgtct	tcaggctgga
13021	cctactasaa	auguaceuge astatasa	CaattCaaCt	gracticet	tctgtgcttt	tgcagtagac
	Toggodaaag	Cacacaayya	LLACCIAOCA	adrogaddac	2200221020	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	~~3~~3~~	gracacacac	Luulacadda	Caddcaatta	ctotaaoaoo	200000000
		aguettuqq	Luulucccca	EGELGLGLGL	attataaata	77777hh
		- LLAAAYYALL	CLGEGACETO	aaaggtaagt	200t00000t	200120000
	-Jugueaucg	acceagequ	LLLLacache	adaaacacaa	**************************************	0 t
13321	tggaaaggtt	atggctgtag	ttataaccaa	ctcccccag	ccttgatgca	ctgcggaatg
13381	gcatcaacgt	ttttaaacgg	atttaccata	tacatagasa	ectigatgea	gtctgcggat
13441	cagggagtag	tactcatatata	geergegeg	Laagugcage	ccgtcttaca	ccgtgcggca
		Lactyatytt	utctacaddd	CEFEEGATAT	ttacaaccaa	3336bbaaka
	3000gcaaa	guluulaaaa	actaattoct	GECGCEECC2	arara arrat	@2@#2.2@#2.
	a a c c a c c a g a	Cecetace	ulauttaada	aacatactat	atataaataa	
	M3 M C C C C C	caacttqqtt	adayattutc	cadedarrae	tataaataaa	++++
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- USS LYACALY	ulaccacata	TATCACGTCA	acatataaa	20040
13741	tggctgattt	agtetatget	ctacqtcatt	ttastasaaa	taattgtgat	aaatacacaa
13801	aaatactcot	Cacatacaat	taatataata	ctgatgaggg	caactgtgat	acattaaaag
13861	acttcotage	Gastactac	cyclycyalg	acgattattt	caataagaag	gattggtatg
		gaacetuae	alullacoco	rararactas	Attanates.	
	aaccattatt	aaayactuta	caattctcc	atactataca	tastassass	
	- accyacact	ayataattaa	uatcetaaro -	adaactaata	~~~+++~~~+	
	add cade	ayyctycyda	ullcctarra	TOGATTCATA	++=a++a++a	
14101	tcctcacttt	gactagggca	ttaactacta	agtcccatat	ggatgctgat	ctgatgccca
14161	cacttattaa	gtaggattta	ctgaaatata	attttaaraa	ggatgetgat	ctcgcaaaac
14221	accottattt	taaatattee	and a care	accidegga	agagagactt	rgretetteg
14281	ataggtgtate	cattante	yaccayacat	accatcccaa	ttgtattaac	tgtttggatg
	acayyeyeac	College	ucaaacttta	argrattatt	ttataatata	+ + +
	caageteegg	accactagta	adaaaaatat	ttgtagatgg	tattaatte	~++~+ L
	ceggatatta	LLLCGLGAG	ttaggagtca	tacataatca	agatatasaa .	++-~-+
14461	-gegeeteag	LLLCaayyaa	CCCCEagear	atactactaa	topaggtata	72+~~~~~
		J J 1 1 1 1		- Juga	agulaty	cacycayctt
14521	ctggcaattt	attoctagat	aaacocacta	Catacttt	3~t~~~	
~ 1 7 2 1	oeggedattt	actyctagat	aaacccacta	catgetttte	agtagctgca	ctaacaaaca
14581	atgttgcttt	tcaaactqtc	aaacgcacta aaacccggta	atttaataa	20201111	~~~+++~~+
14581 14641	atgttgcttt tgtctaaagg	tcaaactgtc tttctttaag	aaacgcacta aaacccggta qaaqqaaqtt	attttaataa Ctottoaact	agacttttat (gactttgctg
14581 14641	atgttgcttt tgtctaaagg	tcaaactgtc tttctttaag	aaacgcacta aaacccggta qaaqqaaqtt	attttaataa Ctottoaact	agtagctgca (agacttttat (aaaacacttc (ttataatctg (gactttgctg

FIGURE 7E

14761	gtgatatcag	g acaactccta	a ttcgtagttc	a aaqttqttqa	taaatacttt	gattgttacg
14821	atggtggctd	tattaatqc	c aaccaagtaa	tcgttaacaa	tetecatas	tcagctggtt
14881	tcccatttaa	taaatgggg	. aaggetagae	. tttattatga	ctcaatcact	tatgaggatc
14941	aagatgcact	tttcgcgtat	: actaaccat	atotoatoo	tactateact	caaatgaatc
15001	ttaagtatge	r cattagtge:	a aacaataca	atgreatect	cactataact	caaatgaatc
15061	ctactates	a aaatagege	a aayaataya <u>c</u>	cegeacegu	agetggtgt	tctatctgta
15101	gracialyae	adatayatay	Licateaga	aattattgaa	gtcaatagco	gccactagag
15101	gageraergi	ggtaattgga	acaagcaagt	tttacggtgg	ctggcataat	atgttaaaaa
TOTOT	ctgtttacag	j tgatgtagaa	a actccacaco	: ttatgggttg	ggattatcca	aaatgtgaca
T2747	gagccatgcc	taacatgctt	: aggataatqq	r cctctcttat	tettacteac	: aaacataaca
エコプハエ	cttgctgtaa	l cttatcacac	: cgtttctaca	. gattaactaa	cgagtgtgcg	caagtattaa
エコプロエ	gtgagatggt	: catgtgtgg	: ggctcactat	atgttaaacc	aggtggaaca	teateeggtg
12471	argeracaac	: tgcttatgct	: aatagtgtct	ttaacatttq	tcaagctgtt	acagccaatg
12491	taaatgcact	tcttcaact	gatqqtaata	aqataqctqa	caagtatgtc	cocaatctac
T224T	aacacaggct	ctatgagtgt	: ctctatagaa	ataqqqatqt	tgatcatgaa	ttcgtggatg
TOOUT	agttttacgc	ttacctgcgt	aaacatttct	ccatgatgat	tetttetgat	gatgccgttg
TOOOT	Lgtgctataa	cagtaactat	gcggctcaaq	gtttagtagc	tagcattaag	aactttaagg
13/21	cagitettta	ttatcaaaat	aatgtgttca	tatctaaaac	aaaatgttgg	actgagactg
15781	accttactaa	aggacctcac	: qaattttqct	cacagcatac	aatgctagtt	aaacaaggag
15841	atgattacgt	gtacctgcct	tacccagate	catcaagaat	attaggggge	ggctgttttg
15901	tcgatgatat	tqtcaaaaca	gatggtacac	ttatgattga	aacattcata	tcactggcta
15961	ttgatgctta	cccacttaca	aaacatccta	atcaggagta	tactastata	tttcacttgt
16021	atttacaata	cattagaaag	ttacatgatg	accussasca	cgacgacgca	gacatgtatt
16081	ccgtaatgct	aactaatgat	aacacctcac	agtecacegg	acatacatt	tatgaggcta
16141	tgtacacacc	acatacagte	ttacaaacta	taggtaggtag	tatattataa	aattcacaga
16201	cttcacttcg	ttacaatacc	tgtattagga	caggigettg	cycattycyc	aattcacaga
16261	accatotcat	ttcaacatca	cacaaattac	tattatatat	acguigeaag	tgctgctatg
16321	ccccagatta	tastatasat	cacaaattag	agetgeetge	caacccctat	gtttgcaatg
16381	gcaagtcaca	taageeteee	gatgtgacac	aactgtatet	aggaggtatg	agctattatt
16441	tatacasasa	cacatotota	attagttttc	cattatgtgc	taatggtcag	gtttttggtt
16501	gtgattggag	tacatgigia	ggcagtgaca	atgtcactga	cttcaatgcg	atagcaacat
16561	ttttaaaaaa	caatgetgge	gattacatac	ttgccaacac	ttgtactgag	agactcaagc
16671	ctactataca	agaaacgete	aaagccactg	aggaaacatt	taagctgtca	tatggtattg
16601	ctactgtacg	cyaagtactc	tctgacagag	aattgcatct	ttcatgggag	gttggaaaac
10001	ctagaccacc	attgaacaga	aactatgtct	ttactggtta	ccgtgtaact	aaaaatagta
16001	aagtacagat	tggagagtac	acctttgaaa	aaggtgacta	tggtgatgct	gttgtgtaca
10001	gaggtactac	gacatacaag	ttgaatgttg	gtgattactt	tgtgttgaca	tctcacactg
TOSOT	taatgccact	tagtgcacct	actctagtgc	cacaaqaqca	ctatotoaga	attactggct
TOAT	tgtacccaac	actcaacatc	tcagatgagt	tttctaqcaa	tattacaaat	tatcaaaagg
TOART	teggeatgea	aaagtactct	acactccaag	gaccacctqq	tactggtaag	agtcattttg
1/041	ccatcggact	tgctctctat	tacccatctg	ctcqcataqt	gtatacggca	tgctctcatg
TITOT	cagctgttga	tgccctatgt	gaaaaggcat	taaaatattt	gcccatagat	aaatgtagta
TITET	gaatcatacc	tgcgcgtgcg	cgcgtagagt	gttttgataa	attcaaagtg	aattcaacac
1/221	tagaacagta	<i>tgttttctgc</i>	actgtaaatg	cattqccaqa	aacaactgct	gacattgtag
1/201	ccccgatga	aatctctatg	gctactaatt	atgacttgag	tottotcaat	gctagacttc
1/341	grgcaaaaca	ctacgtctat	attggcgatc	ctqctcaatt	accadecee	cgcacattgc
T /40T	tgactaaagg	cacactagaa	ccagaatatt	ttaattcaqt	gtgcagactt	atgaaaacaa
T / 40T	taggtccaga	catgttcctt	ggaacttgtc	gccattatcc	tgctgaaatt	gttgacactg
T / 25T	tgagtgcttt	agtttatgac	aataagctaa	aagcacacaa	ggataagtca	gctcaatgct
TADOT	tcaaaatgtt	ctacaaaggt	gttattacac	atgatgtttc	atctgcaatc	aacagacctc
17641	aaataggcgt	tgtaagagaa	tttcttacac	gcaatcctgc	ttqqaqaaaa	gctgttttta
T / / OT	teteacetta	taattcacag	aacgctgtag	cttcaaaaat	cttaggattg	cctacqcaga
17761	ctgttgattc	atcacagggt	tctgaatatg	actatotcat	attcacacaa	actactgaaa
17821	cagcacactc	ttgtaatgtc	aaccgcttca	atqtqqctat	cacaagggca	aaaattggga
17881	ttttgtgcat	aatgtctgat	agagatettt	atgacaaact	gcaatttaca	actictaceae
17941	taccacqtcq	caatgtggct	acattacaag	cagaaaatgt	aactggactt	tttaaggaa
18001	gtagtaagat	cattactact	cttcatccta	Cacaddoaco	tacacacctc	aggettests
18061	taaaqttcaa	qactqaaqqa	ttatgtgttg	acataccacc	cataccacce	agegregata
18121	accotagact	catctctatc	atgggtttca	aaatraatta	catactaaay	gatacydcct
18181	atatotttat	cacccccae	gaagctattc	atcacatta-	taastaast	ggitacccta
18241	tagaggggtg	teateraset	agagatacta	tooatsate	egegeggatt	ggetttgatg
18301	tttctacacc	tattaaatta	agagatgctg	casatasts	CCCaccccc	cagctaggat
18361	Cadaattoao	caracttant	gtagctgtac	cyactygtta	rgccgacact	gaaaataaca
18421	cactcatctat	taaaccette	gcaaaacctc	taccaggtga	ccagtttaaa	catcttatac
~ U 7 Z I	caccacyca	caaayycccg	ccctggaatg	cayegegeat	taagatagta	caaatgctca

FIGURE 7F

18481 gtgatacact gaaaggattg tcagacagag tcgtgttcgt cctttgggcg catggctttg 18541 agettacate aatgaagtae tttgtcaaga ttggaeetga aagaacgtgt tgtetgtgtg 18601 acaaacgtgc aacttgcttt tctacttcat cagatactta tgcctgctgg aatcattctg 18661 tgggttttga ctatgtctat aacccattta tgattgatgt tcagcagtgg ggctttacgg 18721 gtaaccttca gagtaaccat gaccaacatt gccaggtaca tggaaatgca catgtggcta 18781 gttgtgatgc tatcatgact agatgtttag cagtccatga gtgctttgtt aagcgcgttg 18841 attggtctgt tgaataccct attataggag atgaactgag ggttaattct gcttgcagaa 18901 aagtacaaca catggttgtg aagtctgcat tgcttgctga taagtttcca gttcttcatg 18961 acattggaaa tccaaaggct atcaagtgtg tgcctcaggc tgaagtagaa tggaagttct 19021 acgatgctca gccatgtagt gacaaagctt acaaaataga ggagctcttc tattcttatg 19081 ctacacatca cgataaattc actgatggtg tttgtttgtt ttggaattgt aacgttgatc 19141 gttacccage caatgcaatt gtgtgtaggt ttgacacaag agtcttgtca aacttgaact 19201 taccaggetg tgatggtggt agtttgtatg tgaataagca tgcattccac actccagctt 19261 tcgataaaag tgcatttact aatttaaagc aattgccttt cttttactat tctgatagtc 19321 cttgtgagtc tcatggcaaa caagtagtgt cggatattga ttatgttcca ctcaaatctg 19381 ctacgtgtat tacacgatgc aatttaggtg gtgctgtttg cagacaccat gcaaatgagt 19441 accgacagta cttggatgca tataatatga tgatttctgc tggatttagc ctatggattt 19501 acaaacaatt tgatacttat aacctgtgga atacatttac caggttacag agtttagaaa 19561 atgtggctta taatgttgtt aataaaggac actttgatgg acacgccggc gaagcacctg 19621 tttccatcat taataatgct gtttacacaa aggtagatgg tattgatgtg gagatctttg 19681 aaaataagac aacacttcct gttaatgttg catttgagct ttgggctaag cgtaacatta 19741 aaccagtgcc agagattaag atactcaata atttgggtgt tgatatcgct gctaatactg 19801 taatctggga ctacaaaaga gaagccccag cacatgtatc tacaataggt gtctgcacaa 19861 tgactgacat tgccaagaaa cctactgaga gtgcttgttc ttcacttact gtcttgtttg 19921 atggtagagt ggaaggacag gtagaccttt ttagaaacgc ccgtaatggt gttttaataa 19981 cagaaggttc agtcaaaggt ctaacacctt caaagggacc agcacaagct agcgtcaatg 20041 gagtcacatt aattggagaa tcagtaaaaa cacagtttaa ctactttaag aaagtagacg 20101 gcattattca acagttgcct gaaacctact ttactcagag cagagactta gaggatttta 20161 agcccagatc acaaatggaa actgactttc tcgagctcgc tatggatgaa ttcatacagc 20221 gatataaget egaggetat geettegaac acategtta tggagattte agteatggae 20281 aacttggcgg tcttcattta atgataggct tagccaagcg ctcacaagat tcaccactta 20341 aattagagga ttttatccct atggacagca cagtgaaaaa ttacttcata acagatgcgc 20401 aaacaggttc atcaaaatgt gtgtgttctg tgattgatct tttacttgat gactttgtcg 20461 agataataaa gtcacaagat ttgtcagtga tttcaaaagt ggtcaaggtt acaattgact 20521 atgctgaaat ttcattcatg ctttggtgta aggatggaca tgttgaaacc ttctacccaa 20581 aactacaagc aagtcaagcg tggcaaccag gtgttgcgat gcctaacttg tacaagatgc 20641 aaagaatget tettgaaaag tgtgacette agaattatgg tgaaaatget gttataccaa 20701 aaggaataat gatgaatgtc gcaaagtata ctcaactgtg tcaatactta aatacactta 20761 ctttagctgt accctacaac atgagagtta ttcactttgg tgctggctct gataaaggag 20821 ttgcaccagg tacagctgtg ctcagacaat ggttgccaac tggcacacta cttgtcgatt 20881 cagatettaa tgaettegte teegaegeag attetaettt aattggagae tgtgeaacag 20941 tacatacggc taataaatgg gaccttatta ttagcgatat gtatgaccct aggaccaaac 21001 atgtgacaaa agagaatgac tctaaagaag ggtttttcac ttatctgtgt ggatttataa 21061 agcaaaaact agccctgggt ggttctatag ctgtaaagat aacagagcat tcttggaatg 21121 ctgaccttta caagcttatg ggccatttct catggtggac agcttttgtt acaaatgtaa 21181 atgcatcatc atcggaagca tttttaattg gggctaacta tcttggcaag ccgaaggaac 21241 aaattgatgg ctataccatg catgctaact acattttctg gaggaacaca aatcctatcc 21301 agttgtcttc ctattcactc tttgacatga gcaaatttcc tcttaaatta agaggaactg 21421 gtaggcttat cattagagaa aacaacagag ttgtggtttc aagtgatatt cttgttaaca 21481 actaaacgaa catgtttatt ttcttattat ttcttactct cactagtggt agtgaccttg 21541 accggtgcac cacttttgat gatgttcaag ctcctaatta cactcaacat acttcatcta 21601 tgagggggt ttactatcct gatgaaattt ttagatcaga cactctttat ttaactcagg 21661 atttattet tecattttat tetaatgtta cagggtttea tactattaat catacgtttg 21721 gcaaccctgt catacctttt aaggatggta tttattttgc tgccacagag aaatcaaatg 21781 ttgtccgtgg ttgggttttt ggttctacca tgaacaacaa gtcacagtcg gtgattatta 21841 ttaacaattc tactaatgtt gttatacgag catgtaactt tgaattgtgt gacaaccctt 21901 tctttgctgt ttctaaaccc atgggtacac agacacatac tatgatattc gataatgcat 21961 ttaattgcac tttcgagtac atatctgatg ccttttcgct tgatgtttca gaaaagtcag 22021 gtaattitaa acacitacga gagttigtgt ttaaaaataa agatgggtti ctctatgtti 22081 ataagggcta tcaacctata gatgtagttc gtgatctacc ttctggtttt aacactttga 22141 aacctatttt taagttgcct cttggtatta acattacaaa ttttagagcc attcttacag

FIGURE 7G

22227						
2220I	ccttttcacc	tgctcaagac	atttggggca	cgtcagctgc	agcctatttt	gttggctatt
22261	tasaccesac	tacatttato	ctcaactate	atasastaa	tagaatgaga	gatgctgttg
22201	caaagccaac	tacatttatg	cccaagtatg	acgaaaacgg	Lacaaccaca	gargergrig
22321	attgttctca	aaatccactt	gctgaactca	aatqctctqt	taaqaqcttt	gagattgaca
22381	aaggaattta	ccacacctct	aatttcaccc	ttattaaata	aggagatgtt	atasasttas
22441	ctaatattac	aaacttgtgt	ccttttggag	aggtttttaa	tgctactaaa	ttcccttctq
22501	tctatgcatg	adadadaaa	aaaatttota	attatattaa	tasttastat	ataatataa
22301	cccacgcacg	ggagagaaaa	addattttta	actigitgetige	Lyactactet	gigetetaca
22561	actcaacatt	tttttcaacc	tttaagtgct	atggcgtttc	tqccactaaq	ttgaatgatc
22621	tttgcttctc	caatotetat	gcagattett	ttataataa	agagatast	ataaaaaa
22021	tergetetet	caacgcccac	geagactett	ctgtagttaa	gggagatgat	gcaagacaaa
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	tgggttgtgt					
22001						ggcaactata
22001	attataaata	Laggiaicii	agacatggca	agectaggee	ctttgagaga	gacatatcta
22861	atgtgccttt	ctcccctqat	ggcaaacctt	gcaccccacc	tactcttaat	tattattaac
22921	cattaaatga	thatootttt	tacaccacta	ctaggettag	ctaccaacct	tagagagete
22221	tactuatega	ccacggcccc	cacaccacca	ccggcaccgg	Ctaccaacct	cacagaging
2238T	tagtactttc	ttttgaactt	ttaaatgcac	cggccacggt	ttgtggacca	aaattatcca
23041	ctgaccttat	taagaaccag	tototcaatt	ttaattttaa	tagactcact	ggtactggtg
23101	tgttaactcc	LLCLLCaaag	agatttcaac	Callicaaca	acttggccgt	gatgtttetg
23161	atttcactga	ttccgttcga	gatcctaaaa	catctgaaat	attagacatt	tcaccttqct
23221	cttttggggg	tataaatata	attacaccto	gaacaaatgc	ttcatctcaa	attactatta
2222		testagegea	accacacceg	gaacaaacgc	ttcacctgaa	gregergere
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23341	cagcttggcg	catatattct	actggaaaca	atgtattcca	gactcaagca	ggctgtctta
23401	taggaggtga	acetatagea	acttottato	agtagaagt	tastattas	
23401	taggagctga	geatgeegae	acticitaty	agegegaeae	cectactgga	getggeattt
23461	gtgctagtta	ccatacagtt	tctttattac	gtagtactag	ccaaaaatct	attgtggctt
. 23521	atactatgtc	tttaggtgct	gatagttgaa	ttacttactc	taataacacc	attoctatac
	ctactaactt					
23641	ccgtagattg	taatatqtac	atctqcqqaq	attctactga	atgtgctaat	ttgcttctcc
	aatatggtag					
23761	atcgcaacac	acgtgaagtg	ttcgctcaag	tcaaacaaat	gtacaaaacc	ccaactttga
23821	aatattttgg	togttttaat	ttttcacaaa	tattacctga	ccctctaaaq	ccaactaaga
22001	aatatttat	tanaanatta	atatttaata		sastastast	
	ggtcttttat					
23941	agcaatatgg	cgaatgccta	ggtgatatta	atgctagaga	tctcatttqt	gcqcaqaaqt
	tcaatggact					
24061	ctgctctagt	tagtggtact	gccactgctg	gatggacatt	tggtgctggc	getgetette
24121	aaataccttt	tqctatqcaa	atggcatata	ggttcaatgg	cattggagtt	acccaaaatg
	ttctctatga					
24241	aagaatcact	tacaacaaca	tcaactgcat	tgggcaagct	gcaagacgtt	gttaaccaga
	atgctcaagc					
	gtgtgctaaa					
24421	ggttaattac	aggcagactt	caaagccttc	aaacctatgt	aacacaacaa	ctaatcaggg
	ctgctgaaat					
	gacaatcaaa					
24601	cagccccgca	tggtgttgtc	ttcctacatq	tcacqtatqt	gccatcccag	gagaggaact
24661	tcaccacage	gccagcaatt	tatastassa	gcaaagcata	cttccctcct	gaaggtgttt
24/21	ttgtgtttaa	tggcacttct	tggtttatta	cacagaggaa	cttcttttct	ccacaaataa
24781	ttactacaga	caatacattt	gtctcaggaa	attgtgatgt	cattattagc	atcattaaca
	acacagttta					
	acttcaaaaa					
	ctgtcgtcaa					
25021	aatcactcat	Lyactitad	yaartyyyää	aacacyayca	acacactada	rygcorrggt
25081	atgtttggct	cggcttcatt	gctggactaa	ttgccatcgt	catggttaca	atcttgcttt
25141	gttgcatgac	tagttgttgc	agttgcctca	agggtgcatg	ctcttataat	tettactaca
25201						tocogocycu
	agtttgatga					
25261	coaacttato	datttattta	t~~~~++++	tactetteea	tcaattacto	cacagccagt
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25501	aaaaattgac agcctcactc cgctaccaaa	aatgcttctc cctttcggat ataattgcgc aatttactgc	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt	tgttcatgct tggcgttgca atggcagcta taccatctat	acagcaacga tttcttgctg gccctttata tcacatcttt	taccgctaca tttttcagag agggcttcca tgcttgtcgc
25501 25561	aaaaattgac agcctcactc cgctaccaaa gttcatttgc tgcaggtatg	aatgcttctc cctttcggat ataattgcgc aatttactgc gaggcgcaat	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt ttttgtacct	tgttcatgct tggcgttgca atggcagcta taccatctat ctatgccttg	acagcaacga tttcttgctg gccctttata tcacatcttt atatatttc	taccgctaca tttttcagag agggcttcca tgcttgtcgc tacaatgcat
25501 25561 25621	aaaaattgac agcctcactc cgctaccaaa gttcatttgc tgcaggtatg caacgcatgt	aatgcttctc cctttcggat ataattgcgc aatttactgc gaggcgcaat agaattatta	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt ttttgtacct tgagatgttg	tgttcatgct tggcgttgca atggcagcta taccatctat ctatgccttg gctttgttgg	acagcaacga tttcttgctg gccctttata tcacatcttt atatatttc aagtgcaaat	taccgctaca tttttcagag agggcttcca tgcttgtcgc tacaatgcat ccaagaaccc
25501 25561 25621 25681	aaaaattgac agcctcactc cgctaccaaa gttcatttgc tgcaggtatg caacgcatgt attactttat	aatgcttctc cctttcggat ataattgcgc aatttactgc gaggcgcaat agaattatta gatgccaact	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt ttttgtacct tgagatgttg actttgtttg	tgttcatgct tggcgttgca atggcagcta taccatctat ctatgccttg gctttgttgg ctggcacaca	acagcaacga tttcttgctg gccctttata tcacatcttt atatattttc aagtgcaaat cataactatg	taccgctaca tttttcagag agggcttcca tgcttgtcgc tacaatgcat ccaagaaccc actactgtat
25501 25561 25621 25681	aaaaattgac agcctcactc cgctaccaaa gttcatttgc tgcaggtatg caacgcatgt attactttat	aatgcttctc cctttcggat ataattgcgc aatttactgc gaggcgcaat agaattatta gatgccaact	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt ttttgtacct tgagatgttg actttgtttg	tgttcatgct tggcgttgca atggcagcta taccatctat ctatgccttg gctttgttgg ctggcacaca	acagcaacga tttcttgctg gccctttata tcacatcttt atatattttc aagtgcaaat cataactatg	taccgctaca tttttcagag agggcttcca tgcttgtcgc tacaatgcat ccaagaaccc actactgtat
25501 25561 25621 25681 25741	aaaaattgac agcctcactc cgctaccaaa gttcatttgc tgcaggtatg caacgcatgt attactttat accatataac	aatgcttctc cctttcggat ataattgcgc aatttactgc gaggcgcaat agaattatta gatgccaact agtgtcacag	ctgcaagtac ggcttgttat tcaataaaag tgctatttgt ttttgtacct tgagatgttg actttgtttg atacaattgt	tgttcatgct tggcgttgca atggcagcta taccatctat ctatgccttg gctttgttgg ctggcacaca cgttactgaa	acagcaacga tttcttgctg gccctttata tcacatcttt atatattttc aagtgcaaat cataactatg ggtgacggca	taccgctaca tttttcagag agggcttcca tgcttgtcgc tacaatgcat ccaagaaccc actactgtat tttcaacacc
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FIGURE 7H

25921	. aattactaca	a gacactoota	ttgaaaatgo	tacattotto	atctttaaca	agcttgttaa
25981	agacccacco	aatgtgcaaa	tacacacaat	caacaactct	teaccatte	ctaatccagc
26041	. aatggatcca	atttatgato	adccdacdac	. cgutggtett	ctaggagttg	aagcacaaga
26101	aagtgagtag	gaacttatot	acteatteat	ttcccaecage	acacatacat	taatagttaa
26161	tagegtactt	ctttttcttc	ctttcatcat	ettetteeta	acayytacyt	ccatccttac
26221	tacacttca	ttatatacat	actactace	tattattaaa	greatactag	ceatecttae
26281	ggtttacgto	tactcacato	ttaaaaatat	anatatat	gragettag	taaaaccaac
26341	ggtctaaacc	r aactaactat	tattattatt	gaactettet	gaaggagtto	ctgatcttct
26401	gradacaacg	, auccaactat	cattancare	ctgtttggaa	ctttaacatt	gcttatcatg
26461	gtaataggtt	tectattect	egectaggag	otottaataa	rectggaaca	atggaaccta
26521	aacacctttt	totacetect	ageceggate	ttactactac	aatttgccta	ttctaatcgg
26581	acttatttta	. tgcutacuat	tatetacaca	attaattaa	terratagee	agtaacactt
26641	gcaatggctt	gtattgtage	cttaatataa	attaattygy	tacttact	gattgcgatt
26701	tttactcata	cccctcaat	ataataatta	aagggagaaa	cegeegeete	cttcaggctg
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26821	gtgatcattc	graduatege	gaccagaccg	CCCatyyaaa	grgaactegt	tgacattaag
26881	gacctoccaa	aagagatcac	tataactaca	tgacaccccc	tagggegetg	caaattagga
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27001	aactataaat	taaatacaga	ccaccccggt	aggaaggaa	acaaccgcta	gctagtacag
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27181	agtgagacaa	ttatttaage	ctctaactaa	reagrantent	taggitataa	atgatgaaga
27241	acctatogag	ttagattatc	cataaaacca	acatgaactat	tattatata	ctgacattga
27301	ttgtatttac	atcttgcgag	ctatatcact	atcacgaadac	tattecete	ctgacattga
27361	tactaaaaga	accttgccca	traggaacat	accaggageg	ttaaaasttt	acgaetgtac
27421	ctgacaataa	atttgcacta	acttgcacta	acgagggcaa	taattttaat	tataataa
27481	gtactcgaca	tacctatcag	ctacatacaa	geacacactt	accessant	thatasasa
27541	aagaggaggt	tcaacaagag	ctctactcgc	cactttttct	cattetteet	ccaccagac
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27721	ttggttttca	ctcgaaatcc	aggatetaga	agaacettat	accasactet	anaggange
27781	gaaacttctc	attgttttga	cttotatttc	tctatgcagt	tocatatoca	ctatagtaga
27841	gcgctgtgca	tctaataaac	ctcatgtgct	tgaagateet	totalogea	aacactacca
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28081	gagacgtact	tgttgtttta	aataaacqaa	caaattaaaa	tototoataa	tagaccccaa
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28021	ttgccaaaag	gcttctacgc	agagggaagc	agaggggga	gtcaagcctc	ttetegetee
7000T	ccatcacgta	gtcgcggtaa	ttcaaqaaat	tcaactcctg	gcagcagtag	aggaaattct
20/41	cctgctcgaa	tggctagcgg	aggtggtgaa	actocctco	cactattact	getagacaga
20001	ccgaaccagc	ttgagagcaa	agtttctggt	aaaqqccaac	aacaacaagg	ccaaactgtc
20001	actaayaaat	ctgctgctga	ggcatctaaa	aagcctcgcc	aaaaacgtac	toccacaaaa
20321	cagtacaacg	tcactcaage	atttqqqaqa	cataatccaa	aacaaaccca	aggaaatttc
20301	ggggaccaag	acctaatcag	acaaggaact	qattacaaac	attooccoca	aattgcacaa
23041	LLLgctccaa	gracererae	attetttgga	atqtcacqca	ttggcatgga	agtcacacct
2 3 1 O T	ccyggaacat	ggctgactta	tcatggagcc	attaaattgg	atgacaaaga	tccacaattc
SATOT	aaagacaacg	tcatactgct	gaacaagcac	attgacgcat	acaaaacatt	cccaccaaca
Z 3 Z Z I	gageetaaaa	aggacaaaaa	gaaaaaqact	gatgaagete	agcetttace	gcagagagaa
23201	aayaaycagc	ccactgtgac	tcttcttcct	qcqqctqaca	tagataattt	ctccagacaa
23341	cttcaaaatt	ccatgagtgg	agettetqet	gattcaactc	aggcataaac	actcatgatg
2340I	accacacaag	gcagatgggc	tatgtaaacq	ttttcqcaat	tccqtttacq	atacatagtc
2340I	Lacicity	cagaatgaat	tctcgtaact	aaacaqcaca	agtaggttta	gttaacttta
23321	accidacata	gcaatctta	atcaatqtqt	aacattaqqq	aggacttgaa	agagccacca
732QT	cattttcatc	gaggccacgc	ggagtacgat	cgagggtaca	gtgaataatg	ctagggagag
						•

FIGURE 71

29641 ctgcctatat ggaagagccc taatgtgtaa aattaatttt agtagtgcta tccccatgtg 29701 attttaatag cttcttagga gaatgac

FIGURE 8 A

1 atattaggtt tttacctacc caggaaaagc caaccaacct cgatctcttg tagatctgtt 61 ctctaaacga actttaaaat ctgtgtagct gtcgctcggc tgcatgccta gtgcacctac 121 gcagtataaa caataataaa ttttactgtc gttgacaaga aacgagtaac tcgtccctct 181 tetgeagact gettaeggtt tegteegtgt tgeagtegat cateageata cetaggttte 241 gtccgggtgt gaccgaaagg taagatggag agccttgttc ttggtgtcaa cgagaaaaca 301 cacgtccaac teagtttgcc tgtccttcag gttagagacg tgctagtgcg tggcttcggg 361 gactetgtgg aagaggeet ateggaggea egtgaacace teaaaaatgg eaettgtggt 421 ctagtagage tggaaaaagg egtaetgeee cagettgaae ageeetatgt gtteattaaa 481 cgttctgatg ccttaagcac caatcacggc cacaaggtcg ttgagctggt tgcagaaatg 541 gacggcattc agtacggtcg tagcggtata acactgggag tactcgtgcc acatgtgggc 601 gaaaccccaa ttgcataccg caatgttett ettegtaaga aeggtaataa gggageeggt 661 ggtcatagct atggcatcga tctaaagtct tatgacttag gtgacgagct tggcactgat 721 cccattgaag attatgaaca aaactggaac actaagcatg gcagtggtgc actccgtgaa 781 cleactegig ageteaatgg aggtgeagte aetegetatg tegacaaeaa titetgigge 841 ccagatgggt accetettga ttgcatcaaa gatttteteg caegegggg caagteaatg 901 tgcactcttt ccgaacaact tgattacatc gagtcgaaga gaggtgtcta ctgctgccgt 961 gaccatgage atgaaattge etggtteact gagegetetg ataagageta egageaceag 1021 acaccetteg aaattaagag tgecaagaaa tttgacaett teaaagggga atgeecaaag 1081 titigigitte etettaaete aaaagteaaa gieatteaae eaegigitiga aaagaaaaag 1141 actgagggtt tcatggggcg tatacgctct gtgtaccctg ttgcatctcc acaggagtgt 1201 aacaatatgc acttgtctac cttgatgaaa tgtaatcatt gcgatgaagt ttcatggcag 1261 acgtgcgact ttctgaaagc cacttgtgaa cattgtggca ctgaaaattt agttattgaa 1321 ggacctacta catgtgggta cctacctact aatgctgtag tgaaaatgcc atgtcctgcc 1381 tgtcaagacc cagagattgg acctgagcat agtgttgcag attatcacaa ccactcaaac 1441 attgaaactc gactccgcaa gggaggtagg actagatgtt ttggaggctg tgtgtttgcc 1501 tatgttggct gctataataa gcgtgcctac tgggttcctc gtgctagtgc tgatattggc 1561 teaggecata etggeattae tggtgaeaat gtggagaeet tgaatgagga teteettgag 1621 atactgagte gtgaacgtgt taacattaac attgttggcg attttcattt gaatgaagag 1681 gitgccatca tittggcatc titctctgct tctacaagtg cctttattga cactataaag 1741 agtettgatt acaagtettt caaaaccatt gttgagteet geggtaacta taaagttace 1801 aagggaaagc ccgtaaaagg tgcttggaac attggacaac agagatcagt tttaacacca 1861 ctgtgtggtt ttccctcaca ggctgctggt gttatcagat caatttttgc gcgcacactt 1921 gatgcagcaa accactcaat teetgatttg caaagagcag etgteaceat acttgatggt 1981 attictgaac agicattacg tettgtegac gecatggttt ataetteaga eetgeteace 2041 aacagtgtca ttattatggc atatgtaact ggtggtcttg tacaacagac ttctcagtgg 2101 ttgtctaatc ttttgggcac tactgttgaa aaactcaggc ctatctttga atggattgag 2161 gcgaaactta gtgcaggagt tgaatttctc aaggatgctt gggagattct caaatttctc 2221 attacaggtg tttttgacat cgtcaagggt caaatacagg ttgcttcaga taacatcaag 2281 gattgtgtaa aatgcttcat tgatgttgtt aacaaggcac tcgaaatgtg cattgatcaa 2341 gtcactatcg ctggcgcaaa gttgcgatca ctcaacttag gtgaagtctt catcgctcaa 2401 agcaagggac tttaccgtca gtgtatacgt ggcaaggagc agctgcaact actcatgcct 2461 cttaaggcac caaaagaagt aacctttctt gaaggtgatt cacatgacac agtacttacc 2521 tetgaggagg tigiteteaa gaaeggtgaa etegaageae tegagaegee egitgatage 2581 ttcacaaatg gagctatcgt tggcacacca gtctgtgtaa atggcctcat gctcttagag 2641 attaaggaca aagaacaata ctgcgcattg tctcctggtt tactggctac aaacaatgtc 2701 tttcgcttaa aagggggtgc accaattaaa ggtgtaacct ttggagaaga tactgtttgg 2761 gaagttcaag gttacaagaa tgtgagaatc acatttgagc ttgatgaacg tgttgacaaa 2821 gtgcttaatg aaaagtgctc tgtctacact gttgaatccg gtaccgaagt tactgagttt 2881 gcatgtgttg tagcagaggc tgttgtgaag actttacaac cagtttctga tctccttacc 2941 aacatgggta ttgatcttga tgagtggagt gtagctacat tctacttatt tgatgatgct 3001 ggtgaagaaa acttttcatc acgtatgtat tgttcctttt accctccaga tgaggaagaa

FIGURE 8 B

3061 gaggacgatg cagagtgtga ggaagaagaa attgatgaaa cctgtgaaca tgagtacggt 3121 acagaggatg attatcaagg tetecetetg gaatttggtg ceteagetga aacagttega 3181 gttgaggaag aagaagagga agactggctg gatgatacta ctgagcaatc agagattgag 3241 ccagaaccag aacctacacc tgaagaacca gttaatcagt ttactggtta tttaaaactt 3301 actgacaatg ttgccattaa atgtgttgac atcgttaagg aggcacaaag tgctaatcct 3361 atggtgattg taaatgctgc taacatacac ctgaaacatg gtggtggtgt agcaggtgca 3421 ctcaacaagg caaccaatgg tgccatgcaa aaggagagtg atgattacat taagctaaat 3481 ggccctctta cagtaggagg gtcttgtttg ctttctggac ataatcttgc taagaagtgt 3541 etgeatgttg ttggacetaa eetaaatgea ggtgaggaca teeagettet taaggeagea 3601 tatgaaaatt tcaattcaca ggacatctta cttgcaccat tgttgtcagc aggcatattt 3661 ggtgctaaac cacttcagtc tttacaagtg tgcgtgcaga cggttcgtac acaggtttat 3721 attgcagtca atgacaaagc tctttatgag caggttgtca tggattatct tgataacctg 3781 aagcctagag tggaagcacc taaacaagag gagccaccaa acacagaaga ttccaaaact 3841 gaggagaaat ctgtcgtaca gaagcctgtc gatgtgaagc caaaaattaa ggcctgcatt 3901 gatgaggtta ccacaacact ggaagaaact aagtttetta ccaataagtt actettgttt 3961 getgatatea atggtaaget ttaccatgat teteagaaca tgettagagg tgaagatatg 4021 tettteettg agaaggatge acettacatg gtaggtgatg ttateactag tggtgatate 4081 actigitgitg taataccete caaaaagget ggtggcacta etgagatget etcaagaget 4141 ttgaagaaag tgccagttga tgagtatata accacgtacc ctggacaagg atgtgctggt 4201 tatacacttg aggaagctaa gactgctctt aagaaatgca aatctgcatt ttatgtacta 4261 cetteagaag cacetaatge taaggaagag attetaggaa etgtateetg gaatttgaga 4321 gaaatgettg etcatgetga agagacaaga aaattaatge etatatgeat ggatgttaga 4381 gccataatgg caaccatcca acgtaagtat aaaggaatta aaattcaaga gggcatcgtt 4441 gactatggtg tccgattctt cttttatact agtaaagagc ctgtagcttc tattattacg 4501 aagetgaact etetaaatga geegettgte acaatgeeaa ttggttatgt gacacatggt 4561 tttaatcttg aagaggetge gegetgtatg egttetetta aageteetge egtagtgtea 4621 gtatcatcac cagatgctgt tactacatat aatggatacc tcacttcgtc atcaaagaca 4681 tetgaggage actttgtaga aacagtttet ttggetgget ettacagaga ttggteetat 4741 tcaggacagc gtacagagtt aggtgttgaa tttcttaagc gtggtgacaa aattgtgtac 4801 cacactetgg agageceegt egagttteat ettgaeggtg aggttettte aettgaeaaa 4861 ctaaagagte tettateeet gegggaggtt aagaetataa aagtgtteae aactgtggae 4921 aacactaatc tecacacaca gettgtggat atgtetatga catatggaca geagtttggt 4981 ccaacatact tggatggtgc tgatgttaca aaaattaaac ctcatgtaaa tcatgagggt 5041 aagacttict tigtactacc tagtgatgac acactacgta gigaagctit cgagtactac 5101 catactettg atgagagttt tettggtagg tacatgtetg etttaaacca cacaaagaaa 5161 tggaaatttc ctcaagttgg tggtttaact tcaattaaat gggctgataa caattgttat 5221 ttgtctagtg ttttattagc acttcaacag cttgaagtca aattcaatgc accagcactt 5281 caagaggett attatagage eegtgetggt gatgetgeta aettttgtge aeteatacte 5341 gettacagta ataaaactgt tggcgagett ggtgatgtea gagaaactat gacceatett 5401 ctacagcatg ctaatttgga atctgcaaag cgagttctta atgtggtgtg taaacattgt 5461 ggtcagaaaa ctactacctt aacgggtgta gaagctgtga tgtatatggg tactctatct 5521 tatgataatc ttaagacagg tgtttccatt ccatgtgtgt gtggtcgtga tgctacacaa 5581 tatctagtac aacaagagtc ttctttgtt atgatgtctg caccacctgc tgagtataaa 5641 ttacagcaag gtacattctt atgtgcgaat gagtacactg gtaactatca gtgtggtcat 5701 tacactcata taactgctaa ggagaccctc tatcgtattg acggagctca ccttacaaag 5761 atgtcagagt acaaaggacc agtgactgat gttttctaca aggaaacatc ttacactaca 5821 accatcaage etgtgtegta taaactegat ggagttaett acacagagat tgaaccaaaa 5881 ttggatgggt attataaaaa ggataatgct tactatacag agcagcctat agaccttgta 5941 ccaactcaac cattaccaaa tgcgagtttt gataatttca aactcacatg ttctaacaca 6001 aaatttgctg atgatttaaa tcaaatgaca ggcttcacaa agccagcttc acgagagcta 6061 tetgteacat tetteccaga ettgaatgge gatgtagtgg etattgaeta tagacaetat 6121 tcagcgagtt tcaagaaagg tgctaaatta ctgcataagc caattgtttg gcacattaac

FIGURE 8 C

6181 caggetacaa ccaagacaac gttcaaacca aacacttggt gtttacgttg tctttggagt 6241 acaaagccag tagatacttc aaattcattt gaagttctgg cagtagaaga cacacaagga 6301 atggacaatc ttgcttgtga aagtcaacaa cccacctctg aagaagtagt ggaaaatcct 6361 accatacaga aggaagtcat agagtgtgac gtgaaaacta ccgaagttgt aggcaatgtc 6421 atacttaaac catcagatga aggtgttaaa gtaacacaag agttaggtca tgaggatctt 6481 atggctgctt atgtggaaaa cacaagcatt accattaaga aacctaatga gctttcacta 6541 gccttaggtt taaaaacaat tgccactcat ggtattgctg caattaatag tgttccttgg 6601 agtaaaattt tggcttatgt caaaccattc ttaggacaag cagcaattac aacatcaaat 6661 tgcgctaaga gattagcaca acgtgtgttt aacaattata tgccttatgt gtttacatta 6721 tigitccaat igigtactit tactaaaagi accaaticta gaattagage iteactacet 6781 acaactattg ctaaaaatag tgttaagagt gttgctaaat tatgtttgga tgccggcatt 6841 aattatgtga agtcacccaa attttctaaa ttgttcacaa tcgctatgtg gctattgttg 6901 ttaagtattt gettaggtte tetaatetgt gtaactgetg ettttggtgt actettatet 6961 aattttggtg ctccttctta ttgtaatggc gttagagaat tgtatcttaa ttcgtctaac 7021 gttactacta tggatttctg tgaaggttct tttccttgca gcatttgttt aagtggatta 7081 gactecettg attettatee agetettgaa accatteagg tgacgattte ategtacaag 7141 ctagacttga caattttagg tctggccgct gagtgggttt tggcatatat gttgttcaca 7201 aaattetttt atttattagg tettteaget ataatgeagg tgttetttgg etattttget 7261 agtcatttca tcagcaattc ttggctcatg tggtttatca ttagtattgt acaaatggca 7321 cccgtttctg caatggttag gatgtacatc ttctttgctt ctttctacta catatggaag 7381 agctatgttc atatcatgga tggttgcacc tcttcgactt gcatgatgtg ctataagcgc 7441 aatcgtgcca cacgcgttga gtgtacaact attgttaatg gcatgaagag atctttctat 7501 gtctatgcaa atggaggccg tggcttctgc aagactcaca attggaattg tctcaattgt 7561 gacacatttt gcactggtag tacattcatt agtgatgaag ttgctcgtga tttgtcactc 7621 cagtttaaaa gaccaatcaa ccctactgac cagtcatcgt atattgttga tagtgttgct 7681 gtgaaaaatg gcgcgcttca cctctacttt gacaaggctg gtcaaaagac ctatgagaga 7741 catccgctct cccattttgt caatttagac aatttgagag ctaacaacac taaaggttca 7801 etgectatta atgteatagt ttttgatgge aagteeaaat gegaegagte tgettetaag 7861 tetgettetg tgtactacag teagetgatg tgccaaceta ttetgttget tgaccaaget 7921 citigitateag acgitiggaga tagtactgaa gitteegita agatgitiga igettatgie 7981 gacaccitti cagcaacitt tagigiteet atggaaaaac ttaaggcact igitgetaca 8041 geteacageg agttageaaa gggtgtaget ttagatggtg teetttetae attegtgtea 8101 gctgcccgac aaggtgttgt tgataccgat gttgacacaa aggatgttat tgaatgtctc 8161 aaactttcac atcactctga cttagaagtg acaggtgaca gttgtaacaa tttcatgctc 8221 acctataata aggttgaaaa catgacgccc agagatettg gegeatgtat tgactgtaat 8281 gcaaggcata tcaatgccca agtagcaaaa agtcacaatg tttcactcat ctggaatgta 8341 aaagactaca tgtctttatc tgaacagctg cgtaaacaaa ttcgtagtgc tgccaagaag 8401 aacaacatac cttttagact aacttgtgct acaactagac aggttgtcaa tgtcataact 8461 actaaaatct cactcaaggg tggtaagatt gttagtactt gttttaaact tatgcttaag 8521 gecaeattat tgtgegttet tgetgeattg gtttgttata tegttatgee agtacataca 8581 tigicaatcc atgatggtta cacaaatgaa atcattggtt acaaagccat tcaggatggt 8641 gtcactcgtg acatcatttc tactgatgat tgttttgcaa ataaacatgc tggttttgac 8701 gcatggttta gccagcgtgg tggttcatac aaaaatgaca aaagctgccc tgtagtagct 8761 getateatta caagagagat tggttteata gtgeetgget taeegggtae tgtgetgaga 8821 gcaatcaatg gtgacttett gcattiteta cetegtgtit ttagtgetgt tggcaacatt 8881 tgctacacac cttccaaact cattgagtat agtgattttg ctacctctgc ttgcgttctt 8941 getgetgagt gtacaatttt taaggatget atgggeaaac etgtgeeata ttgttatgae 9001 actaattige tagagggite tatticitat agtgagette giccagacae tegitatgig 9061 cttatggatg gttccatcat acagtttcct aacacttacc tggagggttc tgttagagta 9121 giaacaacti tigatgetga giacigtaga catggtacat gegaaaggte agaagtaggt 9181 atttgcctat ctaccagtgg tagatgggtt cttaataatg agcattacag agctctatca 9241 ggagttttct gtggtgttga tgcgatgaat ctcatagcta acatctttac tcctcttgtg

FIGURE 8 D

9301 caacctgtgg gtgctttaga tgtgtctgct tcagtagtgg ctggtggtat tattgccata 9361 ttggtgactt gtgctgccta ctactttatg aaattcagac gtgtttttgg tgagtacaac 9421 catgttgttg ctgctaatgc acttttgttt ttgatgtctt tcactatact ctgtctggta 9481 ccagcitaca gciticigce gggagictae teagicitit actigiacti gaeattetat 9541 ttcaccaatg atgtttcatt cttggctcac cttcaatggt ttgccatgtt ttctcctatt 9601 gtgccttttt ggataacagc aatctatgta ttctgtattt ctctgaagca ctgccattgg 9661 ttetttaaca actatettag gaaaagagte atgtttaatg gagttacatt tagtacette 9721 gaggaggetg ctttgtgtac ctttttgete aacaaggaaa tgtacctaaa attgcgtage 9781 gagacactgt tgccacttac acagtataac aggtatcttg ctctatataa caagtacaag 9841 tatticagig gagccitaga tactaccage tategigaag cagcitgeig ceacitagea 9901 aaggetetaa atgaetttag caacteaggt getgatgtte tetaceaace accaeagaea 9961 tcaatcactt ctgctgttct gcagagtggt tttaggaaaa tggcattccc gtcaggcaaa 10021 gttgaagggt gcatggtaca agtaacctgt ggaactacaa ctcttaatgg attgtggttg 10081 gatgacacag tatactgtcc aagacatgtc atttgcacag cagaagacat gcttaatcct 10141 aactatgaag atctgctcat tcgcaaatcc aaccatagct ttcttgttca ggctggcaat 10201 gttcaacttc gtgttattgg ccattctatg caaaattgtc tgcttaggct taaagttgat 10261 acttetaace ctaagacace caagtataaa tttgteegta teeaacetgg teaaacattt 10321 teagttetag catgetacaa tggtteacea tetggtgttt ateagtgtge catgagacet 10381 aatcatacca ttaaaggttc tttccttaat ggatcatgtg gtagtgttgg ttttaacatt 10441 gattatgatt gcgtgtcttt ctgctatatg catcatatgg agcttccaac aggagtacac 10501 getggtactg acttagaagg taaattetat ggteeatttg ttgacagaca aactgcacag 10561 gctgcaggta cagacacaac cataacatta aatgttttgg catggctgta tgctgctgtt 10621 atcaatggtg ataggtggtt tettaataga tteaceacta etttgaatga etttaacett 10681 gtggcaatga agtacaacta tgaacctttg acacaagatc atgttgacat attgggacct 10741 ctttctgctc aaacaggaat tgccgtctta gatatgtgtg ctgctttgaa agagctgctg 10801 cagaatggta tgaatggtcg tactatcctt ggtagcacta ttttagaaga tgagtttaca 10861 ccatttgatg ttgttagaca atgctctggt gttaccttcc aaggtaagtt caagaaaatt 10921 gttaagggca ctcatcattg gatgctttta actttcttga catcactatt gattcttgtt 10981 caaagtacac agtggtcact gttttcttt gtttacgaga atgctttctt gccatttact 11041 cttggtatta tggcaattgc tgcatgtgct atgctgcttg ttaagcataa gcacgcattc 11101 tigtgetigt tietgitace tietetigea acagitgeti actitaatat ggietacatg 11161 cctgctagct gggtgatgcg tatcatgaca tggcttgaat tggctgacac tagcttgtct 11221 ggttataggc ttaaggattg tgttatgtat gcttcagctt tagttttgct tattctcatg 11281 acagcicgca cigittatga igatgcigci agacgigitti ggacactgat gaatgicatt 11341 acactigitti acaaagicta ciatggiaat getttagate aagetatite eatgigggee 11401 ttagttattt ctgtaacctc taactattct ggtgtcgtta cgactatcat gtttttagct 11461 agagetatag tgtttgtgtg tgttgagtat tacccattgt tatttattac tggcaacacc 11521 ttacagtgta tcatgcttgt ttattgtttc ttaggctatt gttgctgctg ctactttggc 11581 cttttctgtt tactcaaccg ttacttcagg cttactcttg gtgtttatga ctacttggtc 11641 tetacacaag aatttaggta tatgaactee caggggettt tgeeteetaa gagtagtatt 11701 gatgettea agettaacat taagttgttg ggtattggag gtaaaccatg tatcaaggtt 11761 getaetgtae agtetaaaat gtetgaegta aagtgeaeat etgtggtaet geteteggtt 11821 cttcaacaac ttagagtaga gtcatcttct aaattgtggg cacaatgtgt acaactccac 11881 aatgatatte ttettgeaaa agaeacaact gaagettteg agaagatggt ttetettttg 11941 tetgttttge tatecatgea gggtgetgta gacattaata ggttgtgega ggaaatgete 12001 gataaccgtg ctactcttca ggctattgct tcagaattta gttctttacc atcatatgcc 12061 gettatgeca etgeceagga ggeetatgag eaggetgtag etaatggtga ttetgaagte 12121 gttctcaaaa agttaaagaa atctttgaat gtggctaaat ctgagtttga ccgtgatgct 12181 gccatgcaac gcaagttgga aaagatggca gatcaggcta tgacccaaat gtacaaacag 12241 gcaagatctg aggacaagag ggcaaaagta actagtgcta tgcaaacaat gctcttcact 12301 atgettagga agettgataa tgatgeaett aacaacatta teaacaatge gegtgatggt 12361 tgtgttccac tcaacatcat accattgact acagcagcca aactcatggt tgttgtccct

FIGURE 8 E

12421 gattatggta cctacaagaa cacttgtgat ggtaacacct ttacatatgc atctgcactc 12481 tgggaaatcc agcaagttgt tgatgcggat agcaagattg ttcaacttag tgaaattaac 12541 atggacaatt caccaaattt ggcttggcct cttattgtta cagctctaag agccaactca 12601 getgttaaac tacagaataa tgaactgagt ceagtageac tacgacagat gteetgtgeg 12661 getggtacea cacaaacage ttgtactgat gacaatgcae ttgcctacta taacaatteg 12721 aagggaggta ggtttgtgct ggcattacta tcagaccacc aagatctcaa atgggctaga 12781 ttccctaaga gtgatggtac aggtacaatt tacacagaac tggaaccacc ttgtaggttt 12841 gttacagaca caccaaaagg gcctaaagtg aaatacttgt acttcatcaa aggcttaaac 12901 aacctaaata gaggtatggt getgggeagt ttagetgeta eagtacgtet teaggetgga 12961 aatgetacag aagtacetge caatteaact gtgettteet tetgtgettt tgeagtagae 13021 cctgctaaag catataagga ttacctagca agtggaggac aaccaatcac caactgtgtg 13081 aagatgttgt gtacacacac tggtacagga caggcaatta ctgtaacacc agaagctaac 13141 atggaccaag agtcctttgg tggtgcttca tgttgtctgt attgtagatg ccacattgac 13201 catecaaate etaaaggatt etgtgaettg aaaggtaagt aegteeaaat acetaceaet 13261 tgtgctaatg acccagtggg ttttacactt agaaacacag tctgtaccgt ctgcggaatg 13321 tggaaaggtt atggctgtag ttgtgaccaa ctccgcgaac ccttgatgca gtctgcggat 13381 gcatcaacgt ttttaaacgg gtttgcggtg taagtgcagc ccgtcttaca ccgtgcggca 13441 caggcactag tactgatgtc gtctacaggg cttttgatat ttacaacgaa aaagttgctg 13501 gttttgcaaa gttcctaaaa actaattgct gtcgcttcca ggagaaggat gaggaaggca 13561 atttattaga etettaettt gtagttaaga ggeataetat gtetaaetae caacatgaag 13621 agactattta taacttggtt aaagattgtc cagcggttgc tgtccatgac tttttcaagt 13681 ttagagtaga tggtgacatg gtaccacata tatcacgtca gcgtctaact aaatacacaa 13741 tggctgattt agtctatgct ctacgtcatt ttgatgaggg taattgtgat acattaaaag 13801 aaatactcgt cacatacaat tgctgtgatg atgattattt caataagaag gattggtatg 13861 acttegtaga gaateetgae atettaegeg tatatgetaa ettaggtgag egtgtaegee 13921 aatcattatt aaagactgta caattetgeg atgetatgeg tgatgeagge attgtaggeg 13981 tactgacatt agataatcag gatcttaatg ggaactggta cgatttcggt gatttcgtac 14041 aagtagcacc aggetgegga gtteetattg tggatteata ttacteattg etgatgecea 14101 tecteaciti gaetagggea tiggetgetg agteceatat ggatgetgat etegeaaaac 14161 cacttattaa gtgggatttg ctgaaatatg attttacgga agagagactt tgtctcttcg 14221 acceptattt taaatattgg gaccagacat accateceaa ttgtattaac tgtttggatg 14281 ataggtgtat cetteattgt geaaacttta atgtgttatt ttetaetgtg ttteeaceta 14341 caagttttgg accactagta agaaaaatat ttgtagatgg tgttcctttt gttgtttcaa 14401 etggatacca ttttegtgag ttaggagteg tacataatea ggatgtaaac ttacataget 14461 cgcgtctcag tttcaaggaa cttttagtgt atgctgctga tccagctatg catgcagctt 14521 ctggcaattt attgctagat aaacgcacta catgctttte agtagctgca ctaacaaaca 14581 atgttgcttt tcaaactgtc aaacceggta attttaataa agacttttat gactttgctg 14641 tgtctaaagg tttctttaag gaaggaagtt ctgttgaact aaaacacttc ttctttgctc 14701 aggatggcaa cgctgctatc agtgattatg actattatcg ttataatctg ccaacaatgt 14761 gtgatatcag acaactccta ttcgtagttg aagttgttga taaatacttt gattgttacg 14821 atggtggctg tattaatgcc aaccaagtaa tcgttaacaa tctggataaa tcagctggtt 14881 teccatttaa taaatggggt aaggetagae tttattatga etcaatgagt tatgaggate 14941 aagatgeact tttegegtat actaagegta atgteateee tactataact caaatgaate 15001 ttaagtatgc cattagtgca aagaatagag ctcgcaccgt agctggtgtc tctatctgta 15061 gtactatgac aaatagacag tttcatcaga aattattgaa gtcaatagcc gccactagag 15121 gagctactgt ggtaattgga acaagcaagt tttacggtgg ctggcataat atgttaaaaa 15181 cigitiacag igatgiagaa actecacace tiatgggiig ggattateca aaatgigaca 15241 gagccatgcc taacatgctt aggataatgg cetetettgt tettgetege aaacataaca 15301 cttgctgtaa cttatcacac cgtttctaca ggttagctaa cgagtgtgcg caagtattaa 15361 gigagatggt catgiggge ggctcactat atgitaaacc aggtggaaca tcatccggtg 15421 atgctacaac tgcttatgct aatagtgtct ttaacatttg tcaagctgtt acagccaatg 15481 taaatgeact tettteaact gatggtaata agatagetga caagtatgte egcaatetae

FIGURE 8 F

15541 aacacagget etatgagtgt etetatagaa atagggatgt tgateatgaa ttegtggatg 15601 agtittacge tracetgegt aaacattiet ceatgatgat tettietgat gatgeegtig 15661 tgtgctataa cagtaactat gcggctcaag gtttagtagc tagcattaag aactttaagg 15721 cagttettta ttateaaaat aatgtgttea tgtetgagge aaaatgttgg aetgagaetg 15781 accttactaa aggacctcac gaattttgct cacagcatac aatgctagtt aaacaaggag 15841 atgattacgt gtacctgcct tacccagate cateaagaat attaggegea ggetgttttg 15901 tegatgatat tgtcaaaaca gatggtacae ttatgattga aaggttegtg teaetggeta 15961 tigatgetta eccaettaca aaacateeta ateaggagta tgetgatgte titeaettgt 16021 atttacaata cattagaaag ttacatgatg agcttactgg ccacatgttg gacatgtatt 16081 ccgtaatgct aactaatgat aacacctcac ggtactggga acctgagttt tatgaggcta 16141 tgtacacacc acatacagtc ttgcaggctg taggtgcttg tgtattgtgc aattcacaga 16201 cttcacttcg ttgcggtgcc tgtattagga gaccattcct atgttgcaag tgctgctatg 16261 accatgicat ticaacatca cacaaattag tgttgtctgt taatccctat gtttgcaatg 16321 ccccaggttg tgatgtcact gatgtgacac aactgtatct aggaggtatg agctattatt 16381 gcaagtcaca taagcctccc attagttttc cattatgtgc taatggtcag gtttttggtt 16441 tatacaaaaa cacatgtgta ggcagtgaca atgtcactga cttcaatgcg atagcaacat 16501 gtgattggac taatgctggc gattacatac ttgccaacac ttgtactgag agactcaagc 16561 ttttcgcagc agaaacgctc aaagccactg aggaaacatt taagctgtca tatggtattg 16621 ccactgtacg cgaagtactc tctgacagag aattgcatct ttcatgggag gttggaaaac 16681 ctagaccacc attgaacaga aactatgtct ttactggtta ccgtgtaact aaaaatagta 16741 aagtacagat tggagagtac acctttgaaa aaggtgacta tggtgatgct gttgtgtaca 16801 gaggtactac gacatacaag ttgaatgttg gtgattactt tgtgttgaca tctcacactg 16861 taatgecact tagtgeacet actetagtge caeaagagea etatgtgaga attactgget 16921 tgtacccaac actcaacatc tcagatgagt tttctagcaa tgttgcaaat tatcaaaagg 16981 teggeatgea aaagtactet acaeteeaag gaccaeetgg taetggtaag agteattttg 17041 ccateggact tgetetetat tacceatetg etegeatagt gtataeggea tgeteteatg 17101 cagctgttga tgccctatgt gaaaaggcat taaaatattt gcccatagat aaatgtagta 17161 gaatcatacc tgcgcgtgcg cgcgtagagt gttttgataa attcaaagtg aattcaacac 17221 tagaacagta tgttttctgc actgtaaatg cattgccaga aacaactgct gacattgtag 17281 tetttgatga aatetetatg getaetaatt atgaettgag tgttgteaat getagaette 17341 gtgcaaaaca ctacgtctat attggcgatc ctgctcaatt accagcccc cgcacattgc 17401 tgactaaagg cacactagaa ccagaatatt ttaattcagt gtgcagactt atgaaaacaa 17461 taggiccaga catgiticcit ggaactigic geogtigiee tgetgaaatt gitgacaetg 17521 tgagtgettt agtttatgae aataagetaa aageaeacaa ggataagtea geteaatget 17581 tcaaaatgtt ctacaaaggt gttattacac atgatgtttc atctgcaatc aacagacctc 17641 aaataggegt tgtaagagaa tttettaeae geaateetge ttggagaaaa getgtttta 17701 teteacetta taatteacag aacgetgtag etteaaaaat ettaggattg eetaegeaga 17761 ctgttgattc atcacagggt tctgaatatg actatgtcat attcacacaa actactgaaa 17821 cagcacacte ttgtaatgte aacegettea atgtggetat cacaagggea aaaattggea 17881 tittgtgcat aatgtctgat agagatcttt atgacaaact gcaatttaca agtctagaaa 17941 taccacging caatgigget anattacaag cagaaaatgi aactggacti titaaggact 18001 gtagtaagat cattactggt cttcatccta cacaggcacc tacacacctc agcgttgata 18061 taaagttcaa gactgaagga ttatgtgttg acataccagg cataccaaag gacatgacct 18121 accgtagact catctctatg atgggtttca aaatgaatta ccaagtcaat ggttacccta 18181 atatgtttat caccegegaa gaagetatte gteaegtteg tgegtggatt ggetttgatg 18241 tagagggetg teatgeaact agagatgetg tgggtaetaa cetacetete eagetaggat 18301 tttctacagg tgttaactta gtagctgtac cgactggtta tgttgacact gaaaataaca 18361 cagaatteae cagagttaat geaaaaeete eaceaggtga eeagtttaaa eatettatae 18421 cactcatgta taaaggettg eeetggaatg tagtgegtat taagatagta caaatgetea 18481 gigatacact gaaaggattg tcagacagag tcgtgttcgt cctttgggcg catggctttg 18541 agettacate aatgaagtae titigteaaga tiggaeetga aagaaegigt igietgigig 18601 acaaacgtgc aacttgcttt tctacttcat cagatactta tgcctgctgg aatcattctg

FIGURE 8 G

18661 tgggttttga ctatgtctat aacccattta tgattgatgt tcagcagtgg ggctttacgg 18721 gtaaccttca gagtaaccat gaccaacatt gccaggtaca tggaaatgca catgtggcta 18781 gttgtgatgc tatcatgact agatgtttag cagtccatga gtgctttgtt aagcgcgttg 18841 attggtctgt tgaataccct attataggag atgaactgag ggttaattct gcttgcagaa 18901 aagtacaaca catggttgtg aagtctgcat tgcttgctga taagtttcca gttcttcatg 18961 acattggaaa tccaaaggct atcaagtgtg tgcctcaggc tgaagtagaa tggaagttct 19021 acgatgetea gecatgtagt gacaaagett acaaaataga ggaactette tattettatg 19081 ctacacatca cgataaattc actgatggtg tttgtttgtt ttggaattgt aacgttgatc 19141 gttacccage caatgeaatt gtgtgtaggt ttgacacaag agtettgtea aacttgaact 19201 taccaggetg tgatggtggt agtttgtatg tgaataagca tgcattccac actccagctt 19261 tegataaaag tgeatttaet aatttaaage aattgeettt ettttaetat tetgatagte 19321 cttgtgagtc tcatggcaaa caagtagtgt cggatattga ttatgttcca ctcaaatctg 19381 ctacgtgtat tacacgatgc aatttaggtg gtgctgtttg cagacaccat gcaaatgagt 19441 accgacagta citggatgca tataatatga tgattictgc tggatttagc ctatggattt 19501 acaaacaatt tgatacttat aacctgtgga atacatttac caggttacag agtttagaaa 19561 atgtggctta taatgttgtt aataaaggac actttgatgg acacgccggc gaagcacctg 19621 tttccatcat taataatgct gtttacacaa aggtagatgg tattgatgtg gagatctttg 19681 aaaataagac aacactteet gttaatgttg catttgaget ttgggetaag egtaacatta 19741 aaccagtgcc agagattaag atactcaata atttgggtgt tgatatcgct gctaatactg 19801 taatetggga etacaaaaga gaageeeeag eacatgtate tacaataggt gtetgeacaa 19861 tgactgacat tgccaagaaa cctactgaga gtgcttgttc ttcacttact gtcttgtttg 19921 atggtagagt ggaaggacag gtagaccttt ttagaaacgc ccgtaatggt gttttaataa 19981 cagaaggttc agtcaaaggt ctaacacctt caaagggacc agcacaagct agcgtcaatg 20041 gagtcacatt aattggagaa tcagtaaaaa cacagtttaa ctactttaag aaagtagacg 20101 gcattattca acagttgcct gaaacctact ttactcagag cagagactta gaggatttta 20161 ageccagate acaaatggaa aetgaettte tegagetege tatggatgaa tteatacage 20221 gatataaget egagggetat geettegaae acategttta tggagattte agteatggae 20281 aacttggcgg tetteattta atgatagget tagecaageg eteacaagat teaceaetta 20341 aattagagga ttttatccct atggacagca cagtgaaaaa ttacttcata acagatgcgc 20401 aaacaggttc atcaaaatgt gtgtgttctg tgattgatct tttacttgat gactttgtcg 20461 agataataaa gtcacaagat ttgtcagtga tttcaaaagt ggtcaaggtt acaattgact 20521 atgctgaaat ttcattcatg ctttggtgta aggatggaca tgttgaaacc ttctacccaa 20581 aactacaage aagteaageg tggcaaceag gtgttgegat geetaacttg tacaagatge 20641 aaagaatget tettgaaaag tgtgacette agaattatgg tgaaaatget gttataceaa 20701 aaggaataat gatgaatgtc gcaaagtata ctcaactgtg tcaatactta aatacactta 20761 ctttagctgt accetacaac atgagagtta tteactttgg tgctggctct gataaaggag 20821 ttgcaccagg tacagctgtg ctcagacaat ggttgccaac tggcacacta cttgtcgatt 20881 cagatettaa tgaettegte teegaegeag attetaettt aattggagae tgtgeaacag 20941 tacatacggc taataaatgg gaccttatta ttagcgatat gtatgaccct aggaccaaac 21001 atgtgacaaa agagaatgac tctaaagaag ggtttttcac ttatctgtgt ggatttataa 21061 agcaaaaact agccctgggt ggttctatag ctgtaaagat aacagagcat tcttggaatg 21121 ctgaccttta caagcttatg ggccatttct catggtggac agcttttgtt acaaatgtaa 21181 atgcatcatc atcggaagca tttttaattg gggctaacta tcttggcaag ccgaaggaac 21241 aaattgatgg ctataccatg catgctaact acattttctg gaggaacaca aatcctatcc 21301 agttgtcttc ctattcactc tttgacatga gcaaatttcc tcttaaatta agaggaactg 21421 gtaggettat cattagagaa aacaacagag ttgtggttte aagtgatatt ettgttaaca 21481 actaaacgaa catgtttatt ttcttattat ttcttactct cactagtggt agtgaccttg 21541 accggtgcac cacttttgat gatgttcaag ctcctaatta cactcaacat acttcatcta 21601 tgagggggt ttactatcct gatgaaattt ttagatcaga cactctttat ttaactcagg 21661 attrattet tecattitat tetaatgita eagggittea taetattaat eataegittg 21721 gcaaccetgt catacetttt aaggatggta tttattttgc tgccacagag aaatcaaatg

FIGURE 8 H

21781 ttgtccgtgg ttgggttttt ggttctacca tgaacaacaa gtcacagtcg gtgattatta 21841 ttaacaattc tactaatgtt gttatacgag catgtaactt tgaattgtgt gacaaccctt 21901 tettigetgt ttetaaacce atgggtaeae agacacatae tatgatatte gataatgeat 21961 ttaattgcac tttcgagtac atatctgatg cettttcget tgatgtttca gaaaagtcag 22021 gtaatittaa acacttacga gagtttgtgt ttaaaaataa agatgggttt ctctatgttt 22081 ataagggcta tcaacctata gatgtagttc gtgatctacc ttctggtttt aacactttga 22141 aacctatttt taagttgeet ettggtatta acattacaaa ttttagagee attettacag 22201 ccttttcacc tgctcaagac atttggggca cgtcagctgc agcctatttt gttggctatt 22261 taaagccaac tacatttatg ctcaagtatg atgaaaatgg tacaatcaca gatgctgttg 22321 attgttctca aaatccactt gctgaactca aatgctctgt taagagcttt gagattgaca 22381 aaggaattta ccagacctct aatttcaggg ttgttccctc aggagatgtt gtgagattcc 22441 ctaatattac aaacttgtgt cettttggag aggtttttaa tgctactaaa tteeettetg 22501 tetatgeatg ggagagaaaa aaaattteta attgtgttge tgattaetet gtgetetaea 22561 actcaacatt tttttcaacc tttaagtgct atggcgtttc tgccactaag ttgaatgatc 22621 tttgcttctc caatgtctat gcagattctt ttgtagtcaa gggagatgat gtaagacaaa 22681 tagcgccagg acaaactggt gttattgctg attataatta taaattgcca gatgatttca 22741 tgggttgtgt ccttgcttgg aatactagga acattgatgc tacttcaact ggtaattata 22801 attataaata taggtatett agacatggea agettaggee etttgagaga gacatateta 22861 atgtgccttt ctcccctgat ggcaaacctt gcaccccacc tgctcttaat tgttattggc 22921 cattaaatga ttatggtttt tacaccacta ctggcattgg ctaccaacct tacagagttg 22981 tagtacttic tittgaacti ttaaatgcac cggccacggt tigtggacca aaattatcca 23041 ctgaccttat taagaaccag tgtgtcaatt ttaattttaa tggactcact ggtactggtg 23101 tgttaactcc ttcttcaaag agatttcaac catttcaaca atttggccgt gatgtttctg 23161 atttcactga ttccgttcga gatcctaaaa catctgaaat attagacatt tcaccttgcg 23221 cttttggggg tgtaagtgta attacacctg gaacaaatgc ttcatctgaa gttgctgttc 23281 tatatcaaga tgttaactgc actgatgttt ctacagcaat tcatgcagat caactcacac 23341 cagcttggcg catatattct actggaaaca atgtattcca gactcaagca ggctgtctta 23401 taggagetga geatgtegae acttettatg agtgegaeat teetattgga getggeattt 23461 gtgctagtta ccatacagtt tctttattac gtagtactag ccaaaaatct attgtggctt 23521 atactatgte titaggiget gatagiteaa tigettaete taataacaee atigetatae 23581 ctactaactt ttcaattagc attactacag aagtaatgcc tgtttctatg gctaaaacct 23641 ccgtagattg taatatgtac atctgcggag attctactga atgtgctaat ttgcttctcc 23701 aatatggtag cttttgcaca caactaaatc gtgcactctc aggtattgct gctgaacagg 23761 atcgcaacac acgtgaagtg ttcgctcaag tcaaacaaat gtacaaaacc ccaactttga 23821 aatattttgg tggttttaat ttttcacaaa tattacctga ccctctaaag ccaactaaga 23881 ggtcttttat tgaggacttg ctctttaata aggtgacact cgctgatgct ggcttcatga 23941 agcaatatgg cgaatgccta ggtgatatta atgctagaga tctcatttgt gcgcagaagt 24001 teaatggact tacagtgttg ceacetetge teaetgatga tatgattget geetacaetg 24061 cigctctagt tagtggtact gccactgctg gatggacatt tggtgctggc gctgctcttc 24121 aaataccttt tgctatgcaa atggcatata ggttcaatgg cattggagtt acccaaaatg 24181-ttctctatga gaaccaaaaa caaatcgcca accaatttaa caaggcgatt agtcaaattc 24241 aagaatcact tacaacaaca tcaactgcat tgggcaagct gcaagacgtt gttaaccaga 24301 atgeteaage attaaacaca ettgttaaac aacttagete taattttggt geaattteaa 24361 gtgtgctaaa tgatateett tegegaettg ataaagtega ggeggaggta caaattgaca 24421 ggttaattac aggcagactt caaagccttc aaacctatgt aacacaacaa ctaatcaggg 24481 ctgctgaaat cagggcttct gctaatcttg ctgctactaa aatgtctgag tgtgttcttg 24541 gacaatcaaa aagagttgac ttttgtggaa agggctacca ccttatgtcc ttcccacaag 24601 cagecegea tggtgttgte tteetacatg teaegtatgt gecateceag gagaggaact 24661 teaceaeage geeageaatt tgteatgaag geaaageata etteeetegt gaaggtgttt 24721 ttgtgtttaa tggcacttct tggtttatta cacagaggaa cttcttttct ccacaaataa 24781 ttactacaga caatacatti gtctcaggaa attgtgatgt cgttattggc atcattaaca 24841 acacagitta igatcetetg caacetgage itgacteatt caaagaagag etggacaagi

FIGURE 8 I

24901 acttcaaaaa tcatacatca ccagatgttg atcttggcga catttcaggc attaacgctt 24961 etgtegteaa catteaaaaa gaaattgace geeteaatga ggtegetaaa aatttaaatg 25021 aatcactcat tgaccttcaa gaattgggaa aatatgagca atatattaaa tggccttggt 25081 atgittggci cggcticatt gctggactaa ttgccatcgt catggttaca atcttgcttt 25141 gttgcatgac tagttgttgc agttgcctca agggtgcatg ctcttgtggt tcttgctgca 25201 agtttgatga ggatgactct gagccagttc tcaagggtgt caaattacat tacacataaa 25261 cgaacttatg gatttgitta tgagatttit tactcitaga tcaattactg cacagccagt 25321 aaaaattgac aatgettete etgeaagtae tgtteatget acageaacga tacegetaca 25381 agecteacte cettteggat ggettgttat tggegttgea tttettgetg ttttteagag 25441 cgctaccaaa ataattgcgc tcaataaaag atggcagcta gccctttata agggcttcca 25501 gttcatttgc aatttactgc tgctatttgt taccatctat tcacatcttt tgcttgtcgc 25561 tgcaggtatg gaggcgcaat ttttgtacct ctatgccttg atatattttc tacaatgcat 25621 caacgcatgt agaattatta tgagatgttg gctttgttgg aagtgcaaat ccaagaaccc 25681 attactttat gatgccaact actttgtttg ctggcacaca cataactatg actactgtat 25741 accatataac agtgtcacag atacaattgt cgttactgaa ggtgacggca tttcaacacc 25801 aaaactcaaa gaagactacc aaattggtgg ttattctgag gataggcact caggtgttaa 25861 agactatgte gttgtacatg getattteae egaagtttae taeeagettg agtetacaea 25921 aattactaca gacactggta ttgaaaatgc tacattcttc atctttaaca agcttgttaa 25981 agacccaccg aatgtgcaaa tacacacaat cgacggctct tcaggagttg ctaatccagc 26041 aatggatcca atttatgatg agccgacgac gactactagc gtgcctttgt aagcacaaga 26101 aagtgagtac gaacttatgt actcattcgt ttcggaagaa acaggtacgt taatagttaa 26161 tagcgtactt cttttcttg ctttcgtggt attcttgcta gtcacactag ccatccttac 26221 tgcgcttcga ttgtgtgcgt actgctgcaa tattgttaac gtgagtttag taaaaccaac 26281 ggtttacgtc tactcgcgtg ttaaaaatct gaactcttct gaaggagttc ctgatcttct 26341 ggtctaaacg aactaactat tattattatt ctgtttggaa ctttaacatt gcttatcatg 26401 gcagacaacg gtactattac cgttgaggag cttaaacaac tcctggaaca atggaaccta 26461 gtaataggtt teetatteet ageetggatt atgttaetae aatttgeeta ttetaategg 26521 aacaggtttt tgtacataat aaagcttgtt ttcctctggc tcttgtggcc agtaacactt 26581 gettgttttg tgettgetge tgtetaeaga attaattggg tgaetggegg gattgegatt 26641 geaatggett gtattgtagg ettgatgtgg ettagetaet tegttgette etteaggetg 26701 tttgctcgta cccgctcaat gtggtcattc aacccagaaa caaacattct tctcaatgtg 26761 cctctccggg ggacaattgt gaccagaccg ctcatggaaa gtgaacttgt cattggtgct 26821 gtgatcattc gtggtcactt gcgaatggcc ggacactccc tagggcgctg tgacattaag 26881 gacctgccaa aagagatcac tgtggctaca tcacgaacgc tttcttatta caaattagga 26941 gcgtcgcagc gtgtaggcac tgattcaggt tttgctgcat acaaccgcta ccgtattgga 27001 aactataaat taaatacaga ccacgccggt agcaacgaca atattgcttt gctagtacag 27061 taagtgacaa cagatgtttc atcttgttga cttccaggtt acaatagcag agatattgat 27121 tatcattatg aggactttca ggattgctat ttggaatctt gacgttataa taagttcaat 27181 agtgagacaa ttatttaagc ctctaactaa gaagaattat tcggagttag atgatgaaga 27241 acctatggag ttagattatc cataaaacga acatgaaaat tattctcttc ctgacattga 27301 tigtatttac atcttgcgag ctatatcact atcaggagtg tgttagaggt acgactgtac 27361 tactaaaaga accttgccca tcaggaacat acgagggcaa ttcaccattt cacctcttg 27421 ctgacaataa atttgcacta acttgcacta gcacacactt tgcttttgct tgtgctgacg 27481 gtactcgaca tacctatcag ctgcgtgcaa gatcagtttc accaaaactt ttcatcagac 27541 aagaggaggt tcaacaagag ctctactcgc cactttttct cattgttgct gctctagtat 27601 ttttaatact ttgcttcacc attaagagaa agacagaatg aatgagctca ctttaattga 27661 citctattig tgctttttag cctttctgct attccttgtt ttaataatgc ttattatatt 27721 ttggttttca ctcgaaatcc aggatctaga agaaccttgt accaaagtct aaacgaacat 27781 gaaacttete attgttttga ettgtattte tetatgeagt tgeatatgea etgtagtaea 27841 gcgctgtgca tctaataaac ctcatgtgct tgaagatcct tgtaaggtac aacactaggg 27901 gtaatactta tagcactgct tggctttgtg ctctaggaaa ggttttacct tttcatagat 27961 ggcacactat ggttcaaaca tgcacaccta atgttactat caactgtcaa gatccagctg

FIGURE 8 J

28021 gtggtgcgct tatagctagg tgttggtacc ttcatgaagg tcaccaaact gctgcattta 28081 gagacgtact tgttgtttta aataaacgaa caaattaaaa tgtctgataa tggaccccaa 28141 tcaaaccaac gtagtgcccc ccgcattaca tttggtggac ccacagattc aactgacaat 28201 aaccagaatg gaggacgcaa tggggcaagg ccaaaacagc gccgacccca aggtttaccc 28261 aataatactg cgtcttggtt cacagctctc actcagcatg gcaaggagga acttagattc 28321 cctcgaggcc agggcgttcc aatcaacacc aatagtggtc cagatgacca aattggctac 28381 taccgaagag ctacccgacg agttcgtggt ggtgacggca aaatgaaaga gctcagccc 28441 agatggtact tetattacet aggaactgge ceagaagett caetteecta eggegetaac 28501 aaagaaggca tcgtatgggt tgcaactgag ggagccttga atacacccaa agaccacatt 28561 ggcaccegca atectaataa caatgetgee aeegtgetae aaetteetea aggaacaaca 28621 ttgccaaaag gettetaege agagggaage agaggeggea gteaageete ttetegetee 28681 teateaegta gtegeggtaa tteaagaaat teaacteetg geageagtag gggaaattet 28741 cctgctcgaa tggctagcgg aggtggtgaa actgccctcg cgctattgct gctagacaga 28801 ttgaaccage ttgagageaa agtttetggt aaaggeeaae aacaacaagg ceaaactgte 28861 actaagaaat ctgctgctga ggcatctaaa aagcctcgcc aaaaacgtac tgccacaaaa 28921 cagtacaacg tcactcaagc atttgggaga cgtggtccag aacaaaccca aggaaatttc 28981 ggggaccaag acctaatcag acaaggaact gattacaaac attggccgca aattgcacaa 29041 titigetecaa gigeetetge attettigga atgicaegea tiggeatgga agicaeacet 29101 tcgggaacat ggctgactta tcatggagcc attaaattgg atgacaaaga tccacaattc 29161 aaagacaacg tcatactgct gaacaagcac attgacgcat acaaaacatt cccaccaaca 29221 gagcctaaaa aggacaaaaa gaaaaagact gatgaagctc agcctttgcc gcagagacaa 29281 aagaagcagc ccactgtgac tettetteet geggetgaca tggatgattt etceagacaa 29341 cttcaaaatt ccatgagtgg agcttctgct gattcaactc aggcataaac actcatgatg 29401 accacacaag gcagatgggc tatgtaaacg ttttcgcaat tccgtttacg atacatagtc 29461 tactcttgtg cagaatgaat tctcgtaact aaacagcaca agtaggttta gttaacttta 29521 atctcacata gcaatcttta atcaatgtgt aacattaggg aggacttgaa agagccacca 29581 cattttcatc gaggccacgc ggagtacgat cgagggtaca gtgaataatg ctagggagag 29641 ctgcctatat ggaagagccc taatgtgtaa aattaatttt agtagtgcta tccccatgtg

FIGURE 9A

7	a b a a a a a a a a a a					
4	ccacccagga	aaagccaacc	aacctcgatc	: tcttgtagat	ctgttctcta	aacgaacttt
61	aaaatctgtg	tagetgtege	teggetgeat	gcctagtgca	cctacgcagt	ataaacaata
121	ataaatttta	ctgtcgttga	caagaaacga	gtaactcgtc	cctcttctgc	agactqctta
181	cggtttcgtc	cgtgttgcag	tcgatcatca	gcatacctag	atttcatcca	ggtgtgaccg
241	aaaqqtaaqa	tggagagcct	tattettaat	gtcaacgaga	aaacacacgt	ccaactcagt
301	ttacctatcc	ttcaggttag	agacgtgcta	gtgcgtggct	tragagacte	tataasaasa
361	gccctatcgg	aggcacgtga	acacctcaaa	aatggcactt	ataatataat	rgrggaagag
421	aaaddcdtac	taccccaact	tasacsacca	tatatatta	ttassatta	agagetggaa
481	addygegede	accccage	cgaacagccc	tatgtgttca	ttaaacgttc	tgatgeetta
5/1	agcaccaacc	atgyctacaa	ggttgttgag	ctggttgcag	aaatggacgg	cattcagtac
501	tagegrapes	graradacacc	gggagtactc	gtgccacatg	tgggcgaaac	cccaattgca
001	Lacegeaatg	ttettetteg	taagaacggt	aataagggag	ccggtggtca	tagctatggc
201 201	accgatctaa	agtettatga	cttaggtgac	gagcttggca	ctgatcccat	tgaagattat
721	gaacaaaact	ggaacactaa	gcatggcagt	ggtgcactcc	gtgaactcac	tcgtgagctc
781	aatggaggtg	cagtcactcg	ctatgtcgac	aacaatttct	gtggcccaga	tgggtaccct
841	cttgattgca	tcaaagattt	tctcgcacgc	gcgggcaagt	caatgtgcac	tctttccgaa
901	caacttgatt	acatcgagtc	gaagagaggt	gtctactgct	gccgtgacca	tgagcatgaa
961	attgcctggt	tcactgagcg	ctctgataag	agctacgagc	accagacacc	cttcqaaatt
1021	aagagtgcca	agaaatttga	cactttcaaa	ggggaatgcc	caaaqtttqt	gtttcctctt
1081	aactcaaaag	tcaaagtcat	tcaaccacqt	gttgaaaaga	aaaagactga	gaatttcata
1141	gggcgtatac	gctctgtgta	ccctattaca	tctccacagg	agtgtaacaa	tatgcacttg
1201	tctaccttga	tgaaatgtaa	tcattgcgat	gaagtttcat	ageagacata	caectttcta
1261	aaagccactt	gtgaacattg	togcactoaa	aatttagtta	ttgaaggag	tagtagatgt
1321	gggtacctac	ctactaatgc	tataataaaa	atgccatgtc	ctacatata	accacacyc
1381	attogaccto	aggatagtgt	tocagegaaa	cacaaccact	gaaaattaa	agacccagag
1441	cacaacaca	agcacagege	statttaa	cacaaccact	thank	aactegacte
1501	cgcaagggag	graggarrag	tastastast	ggctgtgtgt	ttgeetatgt	tggctgctat
1501	aacaagegeg	cetaetgggt	rectegiget	agtgctgata	ttggctcagg	ccatactggc
1601	actactggtg	acaatgtgga	gaccttgaat	gaggatetee	ttgagatact	gagtcgtgaa
1021	cgcgccaaca	ttaacattgt	tggcgatttt	catttgaatg	aagaggttgc	catcattttg
1001	geatettet	ctgcttctac	aagtgccttt	attgacacta	taaagagtct	tgattacaag
1/41	tcttcaaaa	ccattgttga	gtcctgcggt	aactataaag	ttaccaaggg	aaagcccgta
1801	aaaggtgctt	ggaacattgg	acaacagaga	tcagttttaa	caccactgtg	tggttttccc
1861	tcacaggctg	ctggtgttat	cagatcaatt	tttgcgcgca	cacttgatgc	agcaaaccac
1921	tcaattcctg	atttgcaaag	agcagctgtc	accatacttg	atggtatttc	tgaacagtca
1981	ttacgtcttg	tcgacgccat	ggtttatact	tcagacctgc	tcaccaacag	tgtcattatt
2041	atggcatatg	taactggtgg	tcttgtacaa	cagacttctc	agtggttgtc	taatcttttg
2101	ggcactactg	ttgaaaaact	caggcctatc	tttgaatgga	ttgaggcgaa	acttagtgca
2161	ggagttgaat	ttctcaagga	tgcttgggag	attctcaaat	ttctcattac	aggtgttttt
2221	gacatcgtca	agggtcaaat	acaggttgct	tcagataaca	tcaaggattq	tgtaaaatgc
2281	ttcattgatg	ttgttaacaa	ggcactcgaa	atgtgcattg	atcaaqtcac	tatcqctqqc
2341	gcaaagttgc	gatcactcaa	cttaggtgaa	gtcttcatcg	ctcaaagcaa	gggactttac
2401	cgtcagtgta	tacgtggcaa	ggagcagctg	caactactca	tgcctcttaa	ggcaccaaaa
2461	gaagtaacct	ttcttgaagg	tgattcacat	gacacagtac	ttacctctga	agagattatt
2521	ctcaagaacg	gtgaactcga	agcactcgag	acgcccgttg	atagetteac	aaatggaget
2581	atcqttqqca	caccagtetg	tgtaaatggc	ctcatgctct	tagagattaa	adacasadas
2641	caatactgcg	cattgtctcc	tagtttacta	gctacaaaca	atototttco	cttaaaaccc
2701	gatacaccaa	ttaaaggtgt	aacctttgga	gaagatactg	tttaggaagt	tcaacattac
2761	aagaatgtga	gaatcacatt	tgagettgat	gaacgtgttg	acaaactcot	taatgaaaag
2821	tactetatet	acactattaa	atcccctacc	gaagttactg	acaaagtgtt	taatgaaaag
2881	gaggetatta	traaracttt	acceggeace	tatastata	aguitgeatg	tgttgtagca
2001	sttaataaat	cgaagacttt	togattata	tctgatctcc	ttaccaacat	gggtattgat
2001	tastasaats	ggagtgtage	tacattctac	ttatttgatg	atgetggtga	agaaaacttt
3001	teterese	tgtattgttc	cttttacct	ccagatgagg	aagaagagga	cgatgcagag
300T	cgcgaggaag	aagaaattga	tgaaacctgt	gaacatgagt	acggtacaga	ggatgattat
2177	caaggtctcc	ctctggaatt	tggtgcctca	gctgaaacag	ttcgagttga	ggaagaagaa
3181	gaggaagact	ggctggatga	tactactgag	caatcagaga	ttgagccaga	accagaacct
3241	acacctgaag	aaccagttaa	tcagtttact	ggttatttaa	aacttactga	caatgttgcc
3301	attaaatgtg	ttgacatcgt	taaggaggca	caaagtgcta	atcctatggt	gattgtaaat
3361	gctgctaaca	tacacctgaa	acatggtggt	ggtgtagcag	gtgcactcaa	caaggcaacc
3421	aatggtgcca	tgcaaaagga	gagtgatgat	tacattaagc	taaatggccc	tcttacagta
3481	ggagggtctt	gtttgctttc	tggacataat	cttgctaaga	agtgtctgca	tattattaaa
3541	cctaacctaa	atgcaggtga	ggacatccag	cttcttaagg	cagcatatga	aaatttcaat
3601	tcacaqqaca	tcttacttac	accattotto	tcagcaggca	tatttootoc	taaaccactt
			3 3			

FIGURE 9B

3661 cagtctttac aagtgtgcgt gcagacggtt cgtacacagg tttatattgc agtcaatgac 3721 aaagctcttt atgagcaggt tgtcatggat tatcttgata acctgaagcc tagagtggaa 3781 gcacctaaac aagaggagcc accaaacaca gaagattcca aaactgagga gaaatctgtc 3841 gtacagaagc ctgtcgatgt gaagccaaaa attaaggcct gcattgatga ggttaccaca 3901 acactggaag aaactaagtt tcttaccaat aagttactct tgtttgctga tatcaatggt 3961 aagetttace atgattetea gaacatgett agaggtgaag atatgtettt eettgagaag 4021 gatgcacctt acatggtagg tgatgttatc actagtggtg atatcacttg tgttgtaata 4081 ccctccaaaa aggctggtgg cactactgag atgctctcaa gagctttgaa gaaagtgcca 4141 gttgatgagt atataaccac gtaccctgga caaggatgtg ctggttatac acttgaggaa 4201 gctaagactg ctcttaagaa atgcaaatct gcattttatg tactaccttc agaagcacct 4261 aatgctaagg aagagattet aggaactgta teetggaatt tgagagaaat gettgeteat 4321 gctgaagaga caagaaaatt aatgcctata tgcatggatg ttagagccat aatggcaacc 4381 atccaacgta agtataaagg aattaaaatt caagagggca tcgttgacta tggtgtccga 4441 ttcttctttt atactagtaa agagcctgta gcttctatta ttacgaagct gaactctcta 4501 aatgagccgc ttgtcacaat gccaattggt tatgtgacac atggttttaa tcttgaagag 4561 gctgcgcgct gtatgcgttc tcttaaagct cctgccgtag tgtcagtatc atcaccagat 4621 gctgttacta catataatgg atacctcact tcgtcatcaa agacatctga ggagcacttt 4681 gtagaaacag tttctttggc tggctcttac agagattggt cctattcagg acagcgtaca 4741 gagttaggtg ttgaatttct taagcgtggt gacaaaattg tgtaccacac tctggagagc 4801 cccgtcgagt ttcatcttga cggtgaggtt ctttcacttg acaaactaaa gagtctctta 4861 tccctgcggg aggttaagac tataaaagtg ttcacaactg tggacaacac taatctccac 4921 acacagettg tggatatgte tatgacatat ggacageagt ttggtecaae atacttggat 4981 ggtgctgatg ttacaaaaat taaacctcat gtaaatcatg agggtaagac tttctttgta 5041 ctacctagtg atgacacact acgtagtgaa gctttcgagt actaccatac tcttgatgag 5101 agttttcttg gtaggtacat gtctgcttta aaccacacaa agaaatggaa atttcctcaa 5161 gttggtggtt taacttcaat taaatgggct gataacaatt gttatttgtc tagtgtttta 5221 ttagcacttc aacagcttga agtcaaattc aatgcaccag cacttcaaga ggcttattat 5281 agagecegtg etggtgatge tgetaacttt tgtgeactea tactegetta cagtaataaa 5341 actgttggcg agcttggtga tgtcagagaa actatgaccc atcttctaca gcatgctaat 5401 ttggaatctg caaagcgagt tcttaatgtg gtgtgtaaac attgtggtca gaaaactact 5461 accttaacgg gtgtagaagc tgtgatgtat atgggtactc tatcttatga taatcttaag 5521 acaggtgttt ccattccatg tgtgtgtggt cgtgatgcta cacaatatct agtacaacaa 5581 gagtcttctt ttgttatgat gtctgcacca cctgctgagt ataaattaca gcaaggtaca 5641 ttcttatgtg cgaatgagta cactggtaac tatcagtgtg gtcattacac tcatataact 5701 gctaaggaga ccctctatcg tattgacgga gctcacctta caaagatgtc agagtacaaa 5761 ggaccagtga ctgatgtttt ctacaaggaa acatcttaca ctacaaccat caagcctgtg 5821 tcgtataaac tcgatggagt tacttacaca gagattgaac caaaattgga tgggtattat 5881 aaaaaggata atgettaeta tacagageag eetatagaee ttgtaccaae teaaceatta 5941 ccaaatgcga gttttgataa tttcaaactc acatgttcta acacaaaatt tgctgatgat 6001 ttaaatcaaa tgacaggctt cacaaagcca gcttcacgag agctatctgt cacattcttc 6061 ccagacttga atggcgatgt agtggctatt gactatagac actattcagc gagtttcaag 6121 aaaggtgcta aattactgca taagccaatt gtttggcaca ttaaccaggc tacaaccaag 6181 acaacgttca aaccaaacac ttggtgttta cgttgtcttt ggagtacaaa gccagtagat 6241 acttcaaatt catttgaagt tetggeagta gaagacacae aaggaatgga caatettget 6301 tgtgaaagtc aacaacccac ctctgaagaa gtagtggaaa atcctaccat acagaaggaa 6361 gtcatagagt gtgacgtgaa aactaccgaa gttgtaggca atgtcatact taaaccatca 6421 gatgaaggtg ttaaagtaac acaagagtta ggtcatgagg atcttatggc tgcttatgtg 6481 gaaaacacaa gcattaccat taagaaacct aatgagcttt cactagcctt aggtttaaaa 6541 acaattgcca ctcatggtat tgctgcaatt aatagtgttc cttggagtaa aattttggct 6601 tatgtcaaac cattcttagg acaagcagca attacaacat caaattgcgc taagagatta 6661 gcacaacgtg tgtttaacaa ttatatgcct tatgtgttta cattattgtt ccaattgtgt 6721 acttttacta aaagtaccaa ttctagaatt agagcttcac tacctacaac tattgctaaa 6781 aatagtgtta agagtgttgc taaattatgt ttggatgccg gcattaatta tgtgaagtca 6841 cccaaatttt ctaaattgtt cacaatcgct atgtggctat tgttgttaag tatttgctta 6901 ggttctctaa tctgtgtaac tgctgctttt ggtgtactct tatctaattt tggtgctcct 6961 tcttattgta atggcgttag agaattgtat cttaattcgt ctaacgttac tactatggat 7021 ttctgtgaag gttcttttcc ttgcagcatt tgtttaagtg gattagactc ccttgattct 7081 tatccagctc ttgaaaccat tcaggtgacg atttcatcgt acaagctaga cttgacaatt 7141 ttaggtctgg ccgctgagtg ggttttggca tatatgttgt tcacaaaatt cttttattta 7201 ttaggtcttt cagctataat gcaggtgttc tttggctatt ttgctagtca tttcatcagc 7261 aattettgge teatgtggtt tateattagt attgtacaaa tggcacccgt ttetgcaatg 7321 gttaggatgt acatcttctt tgcttctttc tactacatat ggaagagcta tgttcatatc

FIGURE 9C

7381 atggatggtt gcacctcttc gacttgcatg atgtgctata agcgcaatcg tgccacacgc 7441 gttgagtgta caactattgt taatggcatg aagagatctt tctatgtcta tgcaaatgga 7501 ggccgtggct tctgcaagac tcacaattgg aattgtctca attgtgacac attttgcact 7561 ggtagtacat tcattagtga tgaagttgct cgtgatttgt cactccagtt taaaagacca 7621 atcaacccta ctgaccagtc atcgtatatt gttgatagtg ttgctgtgaa aaatggcgcg 7681 cttcacctct actttgacaa ggctggtcaa aagacctatg agagacatcc tctctcccat 7741 tttgtcaatt tagacaattt gagagctaac aacactaaag gttcactgcc tattaatgtc 7801 atagtttttg atggcaagtc caaatgcgac gagtctgctt ctaagtctgc ttctgtgtac 7861 tacagtcagc tgatgtgcca acctattctg ttgcttgacc aagctcttgt atcagacgtt 7921 ggagatagta ctgaagtttc cgttaagatg tttgatgctt atgtcgacac cttttcagca 7981 actittagtg ttcctatgga aaaacttaag gcacttgttg ctacagctca cagcgagtta 8041 gcaaagggtg tagctttaga tggtgtcctt tctacattcg tgtcagctgc ccgacaaggt 8101 gttgttgata ccgatgttga cacaaaggat gttattgaat gtctcaaact ttcacatcac 8161 tctgacttag aagtgacagg tgacagttgt aacaatttca tgctcaccta taataaggtt 8221 gaaaacatga cgcccagaga tcttggcgca tgtattgact gtaatgcaag gcatatcaat 8281 gcccaagtag caaaaagtca caatgtttca ctcatctgga atgtaaaaga ctacatgtct 8341 ttatctgaac agctgcgtaa acaaattcgt agtgctgcca agaagaacaa catacctttt 8401 agactaactt gtgctacaac tagacaggtt gtcaatgtca taactactaa aatctcactc 8461 aagggtggta agattgttag tacttgtttt aaacttatgc ttaaggccac attattgtgc 8521 gttcttgctg cattggtttg ttatatcgtt atgccagtac atacattgtc aatccatgat 8581 ggttacacaa atgaaatcat tggttacaaa gccattcagg atggtgtcac tcgtgacatc 8641 atttctactg atgattgttt tgcaaataaa catgctggtt ttgacgcatg gtttagccag 8701 cgtggtggtt catacaaaaa tgacaaaagc tgccctgtag tagctgctat cattacaaga 8761 gagattggtt tcatagtgcc tggcttaccg ggtactgtgc tgagagcaat caatggtgac 8821 ttcttgcatt ttctacctcg tgtttttagt gctgttggca acatttgcta cacaccttcc 8881 aaactcattg agtatagtga ttttgctacc tctgcttgcg ttcttgctgc tgagtgtaca 8941 atttttaagg atgctatggg caaacctgtg ccatattgtt atgacactaa tttgctagag 9001 ggttctattt cttatagtga gcttcgtcca gacactcgtt atgtgcttat ggatggttcc 9061 atcatacagt ttcctaacac ttacctggag ggttctgtta gagtagtaac aacttttgat 9121 gctgagtact gtagacatgg tacatgcgaa aggtcagaag taggtatttg cctatctacc 9181 agtggtagat gggttcttaa taatgagcat tacagagctc tatcaggagt tttctgtggt 9241 gttgatgcga tgaatctcat agctaacatc tttactcctc ttgtgcaacc tgtgggtgct 9301 ttagatgtgt ctgcttcagt agtggctggt ggtattattg ccatattggt gacttgtgct 9361 gcctactact ttatgaaatt cagacgtgct tttggtgagt acaaccatgt tgttgctgct 9421 aatgcacttt tgtttttgat gtctttcact atactctgtc tggcaccagc ttacagcttt 9481 ctgccgggag tctactcagt cttttacttg tacttgacat tctatttcac caatgatgtt 9541 tcattcttgg ctcaccttca atggtttgcc atgttttctc ctattgtgcc tttttggata 9601 acagcaatct atgtattctg tatttctctg aagcactgcc attggttctt taacaactat 9661 cttaggaaaa gagtcatgtt taatggagtt acatttagta ccttcgagga ggctgctttg 9721 tgtacctttt tgctcaacaa ggaaatgtac ctaaaattgc gtagcgagac actgttgcca 9781 cttacacagt ataacaggta tcttgctcta tataacaagt acaagtattt cagtggagcc 9841 ttagatacta ccagctatcg tgaagcagct tgctgccact tagcaaaggc tctaaatgac 9901 tttagcaact caggtgctga tgttctctac caaccaccac agacatcaat cacttctgct 9961 gttctgcaga gtggttttag gaaaatggca ttcccgtcag gcaaagttga agggtgcatg 10021 gtacaagtaa cctgtggaac tacaactctt aatggattgt ggttggatga cacagtatac 10081 tgtccaagac atgtcatttg cacagcagaa gacatgctta atcctaacta tgaagatctg 10141 ctcattcgca aatccaacca tagctttctt gttcaggctg gcaatgttca acttcgtgtt 10201 attggccatt ctatgcaaaa ttgtctgctt aggcttaaag ttgatacttc taaccctaag 10261 acacccaagt ataaatttgt ccgtatccaa cctggtcaaa cattttcagt tctagcatgc 10321 tacaatggtt caccatctgg tgtttatcag tgtgccatga gacctaatca taccattaaa 10381 ggttctttcc ttaatggatc atgtggtagt gttggtttta acattgatta tgattgcgtg 10441 tettetet atatgeatea tatggagett ceaacaggag tacacgetgg tactgactta 10501 gaaggtaaat tctatggtcc atttgttgac agacaaactg cacaggctgc aggtacagac 10561 acaaccataa cattaaatgt tttggcatgg ctgtatgctg ctgttatcaa tggtgatagg 10621 tggtttctta atagattcac cactactttg aatgacttta accttgtggc aatgaagtac 10681 aactatgaac ctttgacaca agatcatgtt gacatattgg gacctctttc tgctcaaaca 10741 ggaattgccg tcttagatat gtgtgctgct ttgaaagagc tgctgcagaa tggtatgaat 10801 ggtcgtacta tccttggtag cactatttta gaagatgagt ttacaccatt tgatgttgtt 10861 agacaatgct ctggtgttac cttccaaggt aagttcaaga aaattgttaa gggcactcat 10921 cattggatgc ttttaacttt cttgacatca ctattgattc ttgttcaaag tacacagtgg 10981 tcactgtttt tctttgttta cgagaatgct ttcttgccat ttactcttgg tattatggca 11041 attgctgcat gtgctatgct gcttgttaag cataagcacg cattcttgtg cttgtttctg

FIGURE 9D

11101	. ttaccttctc	: ttgcaacagt	tgcttacttt	aatatggtct	acatgcctgc	tagctgggtg
11161	. atgcgtatca	a tgacatggct	tgaattggct	gacactaget	tatctaatta	taggettaag
11221	. gattqtqtta	totatoctto	agetttagtt	ttgcttattc	tratgarage	tcgcactgtt
11281	tatgatgatc	ctoctagaco	tatttagaca	ctgatgaatg	teattacaet	tgtttacaaa
11341	gtctactate	, otgetagae <u>:</u>	, egeteggaea	. ctgatgaatg	ccaccacact	tytttataaa
11403	acctattact	g graatgetet	agattaaget	accedatge	gggeettagt	tatttctgta
11401	acciciaaci	. acticiggige	cgttacgact	accatgttt	tagetagage	tatagtgttt
11401	grarararra	, agrattacco	: attgttattt	attactggca	acaccttaca	gtgtatcatg
11251	cttgtttatt	: gtttcttagg	, ctattgttgc	tgctgctact	ttggcctttt	ctatttactc
11581	aaccgttact	: tcaggcttac	: tcttggtgtt	tatgactact	tggtctctac	acaagaattt
11641	aggtatatga	actcccaggg	gcttttqcct	cctaagagta	gtattgatgc	tttcaagctt
11701	aacattaaqt	tgttgggtat	tggaggtaaa	ccatgtatca	aggttgctac	tgtacagtct
11761	aaaatqtctq	acqtaaaqtq	cacatctata	gtactgetet	coattette	acaacttaga
11821	gtagagtcat	cttctaaatt	ataaacagag	tatatacaac	togacastas	tattcttctt
		caactgaagg	tttccacaa	staattata	tecacaatga	tattettet
11941	atacagaca	ctationage	tootoonto	acggeeee	tttgtctgt	tttgctatcc
12001	attenests	ttastasas	Laalaggeeg	cgcgaggaaa	tgctcgataa	ccgtgctact
12001	Cucaggeta	tegetteaga	atttagttet	ttaccatcat	atgccgctta	tgccactgcc
12061	caggaggcct	atgagcaggc	tgtagctaat	ggtgattctg	aagtcgttct	caaaaagtta
12121	aagaaatctt	tgaatgtggc	taaatctgag	tttgaccgtg	atactaccat	gcaacgcaag
T ST8T	ttggaaaaga	tggcagatca	ggctatgacc	caaatgtaca	aacaggcaag	atctgaggac
12241	aagagggcaa	aagtaactag	tgctatgcaa	acaatgctct	tcactatoct	taggaagctt
12301	gataatgatg	cacttaacaa	cattatcaac	aatgcgcgtg	atggttgtgt	tccactcaac
12361	atcataccat	tgactacage	agccaaactc	atggttgttg	tecetoatta	tggtacctac
12421	aagaacactt	gtgatggtaa	cacctttaca	tatocatoto	cactetee	aatccagcaa
12481	attattaata	cocataccaa	cattetteaa	attactacce	ttaaaataaa	caattcacca
12541	aatttccctt	gggtagtaa	tattagasat	citagigada	ccaacacgga	caattcacca
12601	aatteggett	tasatasat	tgttacagct	ctaagagcca	acteagetgt	taaactacag
12001	aacaacyaac	tyayteeagt	agcactacga	cagatgtcct	gtgcggctgg	taccacacaa
12001	acagettgta	ctgatgacaa	tgcacttgcc	tactataaca	attcgaaggg	aggtaggttt
12/21	grgerggear	tactatcaga	ccaccaagat	ctcaaatggg	ctagattccc	taagagtgat
12/81	ggtacaggta	caatttacac	agaactggaa	ccaccttqta	ggtttgttac	agacacacca
12841	aaagggccta	aagtgaaata	cttgtacttc	atcaaaggct	taaacaacct	aaatagaggt
12901	atggtgctgg	gcagtttagc	tgctacagta	cgtcttcagg	ctqqaaatqc	tacagaagta
12961	cctgccaatt	caactgtgct	tteettetgt	gcttttgcag	tagaccctgc	taaagcatat
13021	aaggattacc	tagcaagtgg	aggacaacca	atcaccaact	gtgtgaagat	attatataca
13081	cacactqqta	caggacaggc	aattactgta	acaccagaag	ctaacatqqa	ccaacactcc
13141	tttaataata	cttcatatta	tctgtattgt	adatoccaca	ttgaccatgg	asatgatasa
13201	ggattctgtg	acttgaaagg	taagtacgtc	caaataccta	casattataa	taateetaaa
13261	gtagatttta	cacttacaaa	cacagtctgt	accatataca	ccaccigige	caatgattta
13321	tataattata	accaactcca	cacageetta	acceptetee	gaatgtggaa	aggitatgge
13381		accaaccecy	cgaacccttg	atgeagtetg	cggatgcatc	aacgttttta
13441		cggtgtaagt	gcagcccgtc	ttacaccgtg	cggcacaggc	actagtactg
	J J	cagggettt	gatatttaca	acgaaaaagt	tgctggtttt	gcaaagttcc
13501		ttgctgtcgc	ttccaggaga	aggatgagga	aggcaattta	ttagactctt
13561		taagaggcat	actatgtcta	actaccaaca	tgaagagact	atttataact
13621		ttgtccagcg	gttgctgtcc	atgacttttt	caagtttaga	gtagatggtg
13681	acatggtacc	acatatatca	cgtcagcgtc	taactaaata	cacaatggct	gatttagtct
13741	atgctctacg	tcattttgat	gagggtaatt	gtgatacatt	aaaagaaata	ctcgtcacat
13801	acaattgctg	tgatgatgat	tatttcaata	agaaggattg	gtatgacttc	gtagagaatc
13861	ctgacatctt	acqcqtatat	gctaacttag	gtgagcgtgt	acoccaatca	ttattaaaga
13921	ctqtacaatt	ctacaatact	atgcgtgatg	caggcattgt	aggegracto	acattadata
13981	atcaggatct	taatgggaac	tggtacgatt	traataattt	catacaaata	acaccagaca
14041	gcggagttcc	tattotogat	tcatattact	catteeteat	cgcacaagta	gcaccaggcc
14101	ggggattage	tactaeatee	catatagata	atastatas	geeeateete	actttgacta
14161	atttactaaa	atatoattt	catatggatg	cigatetege	aaaaccactt	attaagtggg
1/221	attegergaa	acacyactic	acggaagaga	gactttgtct	cttcgaccgt	tattttaaat
14221	attgggacca	gacataccat	cccaattgta	ttaactgttt	ggatgatagg	tgtatccttc
14201	accycgcaaa	cttaatgtg	ttattttcta	ctgtgtttcc	acctacaagt	tttggaccac
14341	tagtaagaaa	aatatttgta	gatggtgttc	cttttgttgt	ttcaactqqa	taccattttc
14401	gtgagttagg	agtcgtacat	aatcaggatg	taaacttaca	tagctcgcgt	ctcaqtttca
14461	aggaactttt	agtgtatgct	gctgatccag	ctatgcatgc	agettetgge	aatttattqc
14521	tagataaacg	cactacatgc	ttttcagtag	ctgcactaac	aaacaatatt	gcttttcaaa
14581	ctgtcaaacc	cggtaatttt	aataaagact	tttatgactt	tactatatat	aaaggtttct
14641	ttaaqqaaqq	aagttctgtt	gaactaaaac	acttettett	tactragget	
14701	ctatcagtga	ttatgactat	tatcgttata	atctoccaec	aatatataat	atcacacaca
14761	tcctattcgt	agttgaagtt	gttgataaat	actttcattc	ttacastast	accayacad
			J540444C	gatty	ccacyacyyc	ggurgialla

FIGURE 9E

14821	atgccaacca	agtaatcgtt	aacaatctgg	ataaatcagc	tggtttccca	tttaataaat
14881	gaataaaac	tagactttat	tatgactcaa	tgagttatga	ggatcaagat	gcacttttcg
						tatgccatta
						atgacaaata
15061	gegeaaagaa	tagageeege	ttanatan	tagagagaga	togragiact	acyacaaaca
12001	gacagutuca	. icagaaatta	ccgaagtcaa	cageegeeae	tagaggaget	actgtggtaa
12121	ttggaacaag	caagttttac	ggtggctggc	acaacatgcc	aaaaactgtt	tacagtgatg
15181	tagaaactcc	acaccttatg	ggttgggatt	atccaaaatg	tgacagagcc	atgcctaaca
15241	tgcttaggat	aatggcctct	cttgttcttg	ctcgcaaaca	taacacttgc	tgtaacttat
15301	cacaccgttt	ctacaggtta	gctaacgagt	gtgcgcaagt	attaagtgag	atggtcatgt
15361	gtggcggctc	actatatqtt	aaaccaqqtq	gaacatcatc	cggtgatgct	acaactoctt
15421					caatgtaaat	
		taataagata	actaacaaat	atgtccgcaa	tctacaacac	aggetetatg
15541	agtgtctcta	tagaaatagg	gatattaata	atgaattcat	ggatgagttt	tacgcttacc
15601	tacatasaca	tttctccata	atrattottt	atgateetge	ggatgagtet	tataagaata
15661						tataacagta
						ctttattatc
15721	aaaataatgt	gttcatgtct	gaggcaaaat	gttggactga	gactgacctt	actaaaggac
15781					aggagatgat	
15841	_	agatccatca	agaatattag	gcgcaggctg	ttttgtcgat	gatattgtca
15901		tacacttatg	attgaaaggt	tcgtgtcact	ggctattgat	gcttacccac
15961	ttacaaaaca	tcctaatcag	gagtatgctg	atgtctttca	cttgtattta	caatacatta
16021	gaaagttaca	tgatgagctt	actggccaca	tgttggacat	gtattccgta	atgctaacta
						acaccacata
					acagacttca	
16201	gtgcctgtat	taggagacca	ttcctatctt	gcaagtgctg	ctatgaccat	gtcatttcaa
16261	catcacacaa	attagtgttg	tctgttaatc	cctatettte	caatgcccca	gattatasta
16321	tcactgatgt	gacacaactg	tatctaggag	gratgageta	ttattgcaag	tcacataacc
16381	ctcccattag	ttttccatta	tatactaata	atcagatttt	tggtttatac	aaaaacacat
					aacatgtgat	
					caagcttttc	
					tattgccact	
16621	tactctctca	cacegaggaa	acacttaage	cacacatege	aaaacctaga	gcacgcgaag
16741	acagaaacta	tgaaaaaggt	ggctaccgtg	otaattattat	tagtaaagta	cayattggag
					gtacagaggt	
				_	cactgtaatg	- -
					tggcttgtac	
					aaaggtcggc	
10301	actictacact	ccaaggacca	ectggtactg	gcaagagcca	ttttgccatc	ggacttgctc
					tcatgcagct	
17101	• •				tagtagaatc	
17161					aacactagaa	
17221	tctgcactgt	aaatgcattg	ccagaaacaa	ctgctgacat	tgtagtcttt	gatgaaatct
					acttcgtgca	
17341	tctatattgg	cgatcctgct	caattaccag	cccccgcac	attgctgact	aaaggcacac
17401	tagaaccaga	atattttaat	tcagtgtgca	gacttatgaa	aacaataggt	ccagacatgt
					cactgtgagt	
17521	atgacaataa	gctaaaagca	cacaaggaga	agtcagctca	atgcttcaaa	atgttctaca
17581	aaggtgttat	tacacatgat	gtttcatctg	caatcaacag	acctcaaata	ggcgttgtaa
17641	gagaatttct	tacacgcaat	cctgcttgga	gaaaagctgt	ttttatctca	ccttataatt
17701	cacagaacgc	tgtagcttca	aaaatcttag	gattgcctac	gcagactgtt	gattcatcac
17761	agggttctga	atatgactat	qtcatattca	cacaaactac	tgaaacagca	cactcttgta
17821	atqtcaaccq	tttcaatqtq	gctatcacaa	gggcaaaaat	tggcattttg	tocataatot
17881	ctgatagaga	tctttatgac	aaactgcaat	ttacaagtct	agaaatacca	catcacaata
17941	togctacatt	acaagcagaa	aatgtaactg	gactttttaa	ggactgtagt	aadatcatta
					tgatataaag	
					gacctaccgt	
					ccctaatatg	
					tgatgtagag	
10241	acttactact	tataaaaa	actacettae	agatass =	aggattttct	acayytytta
					taacacagaa	
					tataccactc	
					gctcagtgat	
10401	yarryccaga	cagagtcgtg	regeettt	gggcgcatgg	ctttgagctt	acaccaatga

FIGURE 9F

18541 agtactttgt caagattgga cctgaaagaa cgtgttgtct gtgtgacaaa cgtgcaactt 18601 gcttttctac ttcatcagat acttatgcct gctggaatca ttctgtgggt tttgactatg 18661 totataacco atttatgatt gatgttcago agtggggctt tacgggtaac cttcagagta 18721 accatgacca acattgccag gtacatggaa atgcacatgt ggctagttgt gatgctatca 18781 tgactagatg tttagcagtc catgagtgct ttgttaagcg cgttgattgg tctgttgaat 18841 accctattat aggagatgaa ctgagggtta attctgcttg cagaaaagta caacacatgg 18901 ttgtgaagtc tgcattgctt gctgataagt ttccagttct tcatgacatt ggaaatccaa 18961 aggetateaa gtgtgtgeet caggetgaag tagaatggaa gttetaegat geteageeat 19021 gtagtgacaa agcttacaaa atagaggagc tcttctattc ttatgctaca catcacgata 19081 aattcactga tggtgtttgt ttgttttgga attgtaacgt tgatcgttac ccagccaatg 19141 caattgtgtg taggtttgac acaagagtct tgtcaaactt gaacttacca ggctgtgatg 19201 gtggtagttt gtatgtgaat aagcatgcat tccacactcc agctttcgat aaaagtgcat 19261 ttactaattt aaagcaattg cctttctttt actattctga tagtccttgt gagtctcatg 19321 gcaaacaagt agtgtcggat attgattatg ttccactcaa atctgctacg tgtattacac 19381 gatgcaattt aggtggtgct gtttgcagac accatgcaaa tgagtaccga cagtacttgg 19441 atgcatataa tatgatgatt tctgctggat ttagcctatg gatttacaaa caatttgata 19501 cttataacct gtggaataca tttaccaggt tacagagttt agaaaatgtg gcttataatg 19561 ttgttaataa aggacacttt gatggacacg ccggcgaagc acctgtttcc atcattaata 19621 atgctgttta cacaaaggta gatggtattg atgtggagat ctttgaaaat aagacaacac 19681 ttcctgttaa tgttgcattt gagctttggg ctaagcgtaa cattaaacca gtgccagaga 19741 ttaagatact caataatttg ggtgttgata tcgctgctaa tactgtaatc tgggactaca 19801 aaagagaagc cccagcacat gtatctacaa taggtgtctg cacaatgact gacattgcca 19861 agaaacctac tgagagtgct tgttcttcac ttactgtctt gtttgatggt agagtggaag 19921 gacaggtaga cctttttaga aacgcccgta atggtgtttt aataacagaa ggttcagtca 19981 aaggtctaac accttcaaag ggaccagcac aagctagcgt caatggagtc acattaattg 20041 gagaatcagt aaaaacacag tttaactact ttaagaaagt agacggcatt attcaacagt 20101 tgcctgaaac ctactttact cagagcagag acttagagga ttttaagccc agatcacaaa 20161 tggaaactga ctttctcgag ctcgctatgg atgaattcat acagcgatat aagctcgagg 20221 gctatgcctt cgaacacatc gtttatggag atttcagtca tggacaactt ggcggtcttc 20281 atttaatgat aggettagee aagegeteae aagatteaee aettaaatta gaggatttta 20341 tccctatgga cagcacagtg aaaaattact tcataacaga tgcgcaaaca ggttcatcaa 20401 aatgtgtgtg ttctgtgatt gatcttttac ttgatgactt tgtcgagata ataaagtcac 20461 aagatttgtc agtgatttca aaagtggtca aggttacaat tgactatgct gaaatttcat 20521 tcatgctttg gtgtaaggat ggacatgttg aaaccttcta cccaaaacta caagcaagtc 20581 aagcgtggca accaggtgtt gcgatgccta acttgtacaa gatgcaaaga atgcttcttg 20641 aaaagtgtga ccttcagaat tatggtgaaa atgctgttat accaaaagga ataatgatga 20701 atgtcgcaaa gtatactcaa ctgtgtcaat acttaaatac acttacttta gctgtaccct 20761 acaacatgag agttattcac tttggtgctg gctctgataa aggagttgca ccaggtacag 20821 ctgtgctcag acaatggttg ccaactggca cactacttgt cgattcagat cttaatgact 20881 tcgtctccga cgcagattct actttaattg gagactgtgc aacagtacat acggctaata 20941 aatgggacct tattattagc gatatgtatg accctaggac caaacatgtg acaaaagaga 21001 atgactctaa agaagggttt ttcacttatc tgtgtggatt tataaagcaa aaactagccc 21061 tgggtggttc tatagctgta aagataacag agcattcttg gaatgctgac ctttacaagc 21121 ttatgggcca tttctcatgg tggacagctt ttgttacaaa tgtaaatgca tcatcatcgg 21181 aagcattttt aattggggct aactatcttg gcaagccgaa ggaacaaatt gatggctata 21241 ccatgcatgc taactacatt ttctggagga acacaaatcc tatccagttg tcttcctatt 21301 cactetttga catgageaaa ttteetetta aattaagagg aactgetgta atgtetetta 21361 aggagaatca aatcaatgat atgatttatt ctcttctgga aaaaggtagg cttatcatta 21421 gagaaaacaa cagagttgtg gtttcaagtg atattcttgt taacaactaa acgaacatgt 21481 ttattttctt attatttctt actctcacta gtggtagtga ccttgaccgg tgcaccactt 21541 ttgatgatgt tcaagctcct aattacactc aacatacttc atctatgagg ggggtttact 21601 atcctgatga aatttttaga tcagacactc tttatttaac tcaggattta tttcttccat 21661 tttattctaa tgttacaggg tttcatacta ttaatcatac gtttgacaac cctgtcatac 21721 cttttaagga tggtatttat tttgctgcca cagagaaatc aaatgttgtc cgtggttggg 21781 tttttggttc taccatgaac aacaagtcac agtcggtgat tattattaac aattctacta 21841 atgttgttat acgagcatgt aactttgaat tgtgtgacaa ccctttcttt gctgtttcta 21901 aacccatggg tacacagaca catactatga tattcgataa tgcatttaat tgcactttcg 21961 agtacatatc tgatgccttt tcgcttgatg tttcagaaaa gtcaggtaat tttaaacact 22021 tacgagagtt tgtgtttaaa aataaagatg ggtttctcta tgtttataag ggctatcaac 22081 ctatagatgt agttcgtgat ctaccttctg gttttaacac tttgaaacct atttttaagt 22141 tgcctcttgg tattaacatt acaaatttta gagccattct tacagccttt tcacctgctc 22201 aagacacttg gggcacgtca gctgcagcct attttgttgg ctatttaaag ccaactacat

FIGURE 9G

22261	ttatgctcaa	gtatgatgaa	aatggtacaa	tcacagatgc	tgttgattgt	tctcaaaatc
22321	cacttgctga	actcaaatgo	tctgttaaga	gctttgagat	tgacaaagga	atttaccaga
22381	cctctaattt	cagggttgtt	ccctcaggac	atgttgtgag	attccctaat	attacaaact
22441	tgtgtccttt	tggagaggtt	tttaatgcta	ctaaattccc	ttctqtctat	gcatgggaga
22501	gaaaaaaaat	ttctaattgt	gttgctgatt	actctqtqct	ctacaactca	acatttttt
22561	caacctttaa	gtgctatggc	gtttctgcca	ctaagttgaa	tgatctttgc	ttctccaatg
22621	tctatgcaga	ttcttttgta	gtcaaqqqaq	atgatgtaag	acaaataggg	ccaggacaaa
22681	ctggtgttat	tgctgattat	aattataaat	tgccagatga	tttcatqqqt	tgtgtccttg
22741	cttggaatac	taggaacatt	gatgctactt	caactggtaa	ttataattat	aaatataggt
22801	atcttagaca	tggcaagctt	aggccctttg	agagagacat	atctaatqtq	cctttctccc
22861	ctgatggcaa	accttgcacc	ccacctgctc	ttaattgtta	ttggccatta	aatqattatq
22921	gtttttacac	cactactggc	attggctacc	aaccttacag	agttgtagta	ctttcttttq
22981	aacttttaaa	tgcaccggcc	acggtttgtg	gaccaaaatt	atccactgac	cttattaaga
23041	accagtgtgt	caattttaat	tttaatggac	tcactggtac	tggtgtgtta	actccttctt
23101	caaagagatt	tcaaccattt	caacaatttg	gccgtgatgt	ttctgatttc	actgattccg
23161	ttcgagatcc	taaaacatct	gaaatattag	acatttcacc	ttgctctttt	gggggtgtaa
23221	gtgtaattac	acctggaaca	aatgcttcat	ctgaagttgc	tgttctatat	caagatgtta
23281	actgcactga	tgtttctaca	gcaattcatg	cagatcaact	cacaccaqct	tagcacatat
23341	attctactgg	aaacaatgta	ttccagactc	aagcaggctg	tcttatagga	gctgagcatg
23401		ttatgagtgc	gacattccta	ttggagctgg	catttgtgct	agttaccata
23461	cagtttcttt	attacgtagt	actagccaaa	aatctattgt	ggcttatact	atgtctttag
23521	gtgctgatag	ttcaattgct	tactctaata	acaccattgc	tatacctact	aacttttcaa
2358I	ttagcattac	tacagaagta	atgcctgttt	ctatggctaa	aacctccgta	gattgtaata
23641	tgtacatetg	cggagattct	actgaatgtg	ctaatttgct	tctccaatat	ggtagctttt
23701	gcacacaact	aaatcgtgca	ctctcaggta	ttgctgctga	acaggatcgc	aacacacgtg
23/01	aagtgttcgc	tcaagtcaaa	caaatgtaca	aaaccccaac	tttgaaatat	tttggtggtt
23821	acttactatt	acaaacacca	cctgaccctc	taaagccaac	taagaggtct	tttattgagg
23941		taataaggtg	acactcgctg	atgctggctt	catgaagcaa	tatggcgaat
24001	tattaccaca	tataatget	agagatetea	tttgtgcgca	gaagttcaat	ggacttacag
	J - J	tactacatac	gatgatatga	ttgctgccta	cactgetget	ctagttagtg
24121	tgcaaatggc	atatacette	acatteggtg	ctggcgctgc	tetteaaata	ccttttgcta
24181	aaaaacaaat	caccasaccas	tttaacaacc	gagttaccca	aaatgttctc	tatgagaacc
24241	caacatcaac	tacattacac	aagctgcaag	cgattagtca acgttgttaa	aattcaagaa	cacctacaa
24301	acacacttot	taaacaactt	agetetaatt	ttggtgcaat	ttoaagtete	caagcattaa
24361	teettteaca	acttgataaa	atcaaaacaa	aggtacaaat	taacagatta	attacagge
24421	gacttcaaag	ccttcaaacc	tatotaacac	aacaactaat	cagggeta	geetceggca
24481	cttctqctaa	tcttactact	actaaaatgt	ctgagtgtgt	tettagacaa	tcaaaaaaa
24541	ttgacttttg	tggaaagggc	taccacctta	tgtccttccc	acaagcagcc	ccacataata
24601	ttgtcttcct	acatgtcacg	tatgtgccat	cccaggagag	gaacttcacc	acagcgccag
24661	caatttgtca	tgaaggcaaa	gcatacttcc	ctcgtgaagg	tatttttata	tttaatggca
24721	cttcttggtt	tattacacag	aggaacttct	tttctccaca	aataattact	acagacaata
24781	catttgtctc	aggaaattgt	gatgtcgtta	ttggcatcat	taacaacaca	gtttatgatc
24841	ctctgcaacc	tgagcttgac	tcattcaaag	aagagetgga	caagtacttc	aaaaatcata
24901	catcaccaga	tgttgatctt	ggcgacattt	caggcattaa	cgcttctqtc	qtcaacattc
24961	aaaaagaaat	tgaccgcctc	aatgaggtcg	ctaaaaattt	aaatgaatca	ctcattgacc
25021	ttcaagaatt	gggaaaatat	gagcaatata	ttaaatggcc	ttggtatgtt	tggctcggct
25081	tcattgctgg	actaattgcc	atcgtcatgg	ttacaatctt	gctttgttgc	atgactagtt
25141	gttgcagttg	cctcaagggt	gcatgctctt	gtggttcttg	ctgcaagttt	gatgaggatg
25201	actictgaged	agrectcaag	ggtgtcaaat	tacattacac	ataaacgaac	ttatggattt
25201	gtttatgaga	ttttttactc	ttggatcaat	tactgcacag	ccagtaaaaa	ttgacaatgc
25321	agastagatt	agractgree	atgctacagc	aacgataccg	ctacaagcct	cactcccttt
25361	tagatast	gttattggcg	ttgcatttct	tgctgttttt	cagagegeta	ccaaaataat
23441 255A1	actoctoct	aaaagatggc	agctagccct	ttataagggc	ttccagttca	tttgcaattt
25501	gesatttta	tregitacea	tctattcaca	tcttttgctt	gtcgctgcag	gtatggaggc
25201	tattatosos	tattaaatt	attacaseta	ttttctacaa	cgcaccaacg	catgtagaat
25681	caactactt	atttactaca	gruggaagtg	caaatccaag	aacccattac	tttatgatgc
25741	Cacacataca	attataatta	atacacataa	ctatgactac	lylacaccat	tanacagtgt
25801	ctaccasatt	actgoogita	ctgagggga	cggcatttca	acaccaaaac attaaaacaa	ccaaagaaga
25861	acatoochah	ttcaccgaag	ttactacca	gcactcaggt gcttgagtct	guladayact	atgregttgt
25921	taatattaaa	aatoctacat	tettestett	taacaagctt	atalaaalla nttaaanan	cacagacac
		anogotacat	Loculation	-uacaayeee	gulaaayadd	caccyaatyt

FIGURE 9H

25983	l gcaaatacad	c acaatcgacg	gctcttcagg	aqttqctaat	ccaqcaatqq	atccaattta
26041	l tgatgagccg	g acgacgacta	ctagcgtgcc	tttqtaaqca	caagaaagto	agtacgaact
26101	l tatgtactca	ttcgtttcgc	aaqaaacago	tacottaata	gttaatagco	tacttcttt
26161	l tettaettte	gtggtattct	tactactcac	actagecate	cttactgcg	ttcgattgtg
26221	Ltgcgtactgc	tgcaatatto	ttaacqtqaq	tttagtaaaa	ccaaccycyc	acgtctactc
26281	l acatattaaa	aatctgaact	cttctcaaco	acttoctoct	ctaatygitt	acgletaete
26341	l actattatta	ttattatat	teenage	agileetgat	cttetggtet	aaacgaacta
26401	l attaccatto	. ccarretger	rggaacttta	acattgetta	tcatggcaga	caacggtact
26401	t attacegete	aggagettaa	acaactcctg	gaacaatgga	acctagtaat	aggtttccta
20401	ticctagect	ggattatgtt	actacaattt	gcctattcta	atcggaacag	gtttttgtac
26521	ataataaago	: ttgttttcct	ctggctcttg	tggccagtaa	cacttgcttg	ttttgtgctt
26581	getgetgtet	. acagaattaa	ttgggtgact	ggcgggattq	cqattqcaat	ggcttgtatt
26641	. gtaggettga	tgtggcttag	ctacttcgtt	gcttccttca	ggctgtttqc	tcqtacccqc
26701	. tcaatgtggt	cattcaaccc	agaaacaaac	attcttctca	atqtqcctct	ccqqqqqaca
26761	. attgtgacca	gaccgctcat	ggaaagtgaa	cttqtcattq	gtactataat	cattcgtggt
26821	. cacttgcgaa	tggccggaca	ctccctaggg	cactataaca	ttaaggaggt	gccaaaagag
26881	. atcactgtgg	ctacatcacq	aacqctttct	tattacaaat	taggagggtg	gcagcgtgta
26941	. ggcactgatt	caggttttgc	tgcatacaac	cactaccata	ttogaaacta	taaattaaat
27001	. acagaccaco	ccaataacaa	cgacaatatt	actttactea	tacactaact	gacaacagat
27061	gtttcatctt	gttgacttcc	aggttagaat	accedecag	ttgattatga	ttotagac
27121	tttcaggatt	gctatttgga	atetteacet	tataataant	toastactor	gacaattatt
27181	taageeteta	actaacaga	attettees	attaataagt	ccaatagtga	gacaattatt
27241	ttatccataa	accaagaaga	accactogga	gctagatgat	gaagaaccta	tggagttaga
27301	ttatccataa	taratatara	addattattc	cetteetgae	actgattgta	tttacatctt
27361	gcgagctata	accattages	gagigigita	gaggtacgac	tgtactacta	aaagaacctt
27301	gcccatcagg	aacatacyag	ggcaattcac	catttcaccc	tcttgctgac	aataaatttg
27421	cactaacttg	cactagcaca	cactttgctt	ttgcttgtgc	tgacggtact	cgacatacct
2/481	atcagctgcg	tgcaagatca	gtttcaccaa	aacttttcat	cagacaagag	gaggttcaac
2/541	aagagctcta	ctcgccactt	tttctcattg	ttgctgctct	agtatttta	atactttgct
27601	tcaccattaa	gagaaagaca	gaatgaatga	gctcacttta	attgacttct	atttgtgctt
27661	tttagccttt	ctgctattcc	ttgttttaat	aatgcttatt	atattttggt	tttcactcga
27721	aatccaggat	ctagaagaac	cttgtaccaa	agtctaaacq	aacatgaaac	ttctcattqt
27781	tttgacttgt	atttctctat	gcagttgcat	acgcactgta	qtacaqcqct	gtgcatctaa
2/841	taaacctcat	gtgcttgaag	atccttgtaa	ggtacaacac	taggggtaat	acttatagca
27901	ctgcttggct	ttgtgctcta	ggaaaggttt	taccttttca	tagatggcac	actatoottc
27961	aaacatgcac	acctaatgtt	actatcaact	gtcaagatcc	agctggtggt	gcgcttatag
28021	ctaggtgttg	gtaccttcat	gaaggtcacc	aaactgctgc	atttagagac	gtacttotto
28081	ttttaaataa	acgaacaaat	taaaatqtct	gataatggac	cccaatcaaa	ccaacgtagt
28141	gcccccgca	ttacatttqq	tqqacccaca	gattcaactg	acaataacca	gaatggagga
28201	cgcaatgggg	caaqqccaaa	acagegeega	ccccaagatt	tacccaataa	tactgcgtct
28261	tggttcacag	ctctcactca	gcatggcaag	gaggaactta	gattcctcg	accegegeee
28321	gttccaatca	acaccaatag	taatccaaat	gaccasatto	gatecteccg	aggccagggc
28381	cgacgagttc	ataataataa	caacaaaata	aaagaggtga	accaccacca	atacttatat
28441	tacctaggaa	ctaaccaaa	agetteactt	coctacaca	ctancanaca	gracitetat
28501	tgggttgcaa	ctgagggagg	cttgaataca	ccccacggcg	ccaacaaaga	aggeategea
28561	aataacaatg	ctaccaccat	actacaactt	cccaaagacc	acattggcac	cegeaateet
28621	aataacaatg	ceaccaceac	gccacaact	ccccaaygaa	caacattgcc	aaaaggette
28681	tacgcagagg	gaagtagagg	testesses	geetettete	getecteate	acgtagtcgc
		gaaatttaat	ceetggeage	agtaggggaa	atteteetge	tcgaatggct
20/41	agcggaggtg	grgaaacrgc	cetegegeta	ttgctgctag	acagattgaa	ccagcttgag
20001	agcaaagttt	ctggtaaagg	ccaacaacaa	caaggccaaa	ctgtcactaa	gaaatctgct
20001	gctgaggcat	ctaaaaagcc	tcgccaaaaa	cgtactgcca	caaaacagta	caacgtcact
28371	caagcatttg	ggagacgtgg	tccagaacaa	acccaaggaa	atttcqqqqa	ccaagaccta
5838T	atcagacaag	gaactgatta	caaacattgg	ccgcaaattq	cacaatttqc	tccaaqtqcc
29041	tetgeattet	ttggaatgtc	acgcattggc	atggaagtca	caccttcqqq	aacatggctg
59101	acttateatg	gagccattaa	attggatgac	aaagatccac	aattcaaaqa	caacqtcata
29161	ctgctgaaca	agcacattga	cgcatacaaa	acattcccac	caacagagcc	taaaaaggac
29221	aaaaagaaaa	agactgatqa	agctcaqcct	ttqccqcaqa	qacaaaaqaa	gcagccact
29281	gtgactcttc	ttcctgcqqc	tgacatggat	gatttctcca	gacaacttca	aaattccato
29341	agtggagctt	ctgctgattc	aactcaggca	taaacactca	tgatgaccac	acaagggaga
29401	tgggctatgt	aaacqttttc	gcaattccgt	ttacgataca	tagtctactc	ttataceae
29461	tgaattctcg	taactaaaca	gcacaagtag	atttaattaa	ctttaatete	acataccast
29521	ctttaatcaa	tgtgtaacat	tagggaggag	ttosssoso	Caccacattt	testesses
29581	cacgcggagt	acgaticgade	atacantaee	taatmotaa	gagaggatgg	tatatacasa
			Jewengegaa	caacyctayy	gagagetgee	rararyyaag

FIGURE 91

29641 agccctaatg tgtaaaatta attttagtag tgctatcccc atgtgatttt aatagcttct 29701 taggagaatg acaaaaaaaa aaaaaaaa aaaaaa

FIGURE 10

1	tctgtgtagc	tgtcgctcgg	ctgcatgcct	agtgcaccta	cgcagtataa	acaataataa
					ttctgcagac	
					cgtccgggtg	
					acacgtccaa	
241	ctgtccttca	ggttagagac	gtgctagtgc	gtggcttcgg	ggactctgtg	gaagaggccc
					tctagtagag	
					acgttctgat	
					ggacggcatt	
					cgaaacccca	
541	gcaatgttct	tcttcgtaag	aacggtaata	agggagccgg	tggtcatagc	tatggcatcg
601	atctaaagtc	ttatgactta	ggtgacgagc	ttggcactga	tcccattgaa	gattatgaac
					actcactcgt	
721	gaggtgtagt	cactcgctat	gtcgacaaca	atttctgtgg	cccagatggg	taccctcttg
781	attgcatcaa	agattttcta	gcacgcgcgg	gcaagtcaat	gtgcactctt	tccgaacaac
					tgaccatgag	
					gacacccttc	
961	gtgccaagaa	atttgacact	ttcaaagggg	aatgcccaaa	gtttgtgttt	cctcttaact
1021	caaaagtcaa	agtcattcaa	ccacgtgttg	aaaagaaaaa	gactgagggt	ttcatggggc
					taacaatatg	
					gacgtgcgac	
1201	ccacttgtga	acattgtggc	actgaaaatt	tagttattga	aggacctact	acatgtgggt
					ctgtcaagac	
1321	gacctgagca	tagtgttgca	gattatcaca	accactcaaa	cattgaaact	cgactccgca
1381	agggaggtag	gactagatgt	tttggaggct	gtgtgtttgc	ctatgttggc	tgctataata
					ctcaggccat	
					gatactgagt	
1561	ttaacattaa	cattgttggc	gattttcatt	tgaatgaaga	ggttgccatc	attttggcat
1621	ctttctctgc	ttctacaagt	gcctttattg	acactataaa	gagtcttgat	tacaagtctt
1681	tcaaaaccat	tgttgagtcc	tgcggt			

FIGURE 11A

1	. agtgttttat	tagcacttca	acagettgaa	gtcaaattca	atgcaccago	acttcaagag
61	gcttattata	gagcccgtgc	tggtgatgct	gctaactttt	gtgcactcat	actcgcttac
121	agtaataaaa	ctgttggcga	gcttggtgat	gtcagagaaa	ctatgaccca	tcttctacag
181	catgctaatt	tggaatctgc	aaaqcqaqtt	cttaatgtgg	tototaaaca	ttgtggtcag
241	aaaactacta	ccttaacggg	tgtagaagct	gtgatgtata	tagatactet	atcttatgat
301	aatcttaaga	caggtgtttc	cattccatct	atatataata	grantactec	acaatatcta
361	gtacaacaag	agtettett	tattataata	tetacaccac	ctactacata	taaattacag
421	caaggtacat	tettatetee	gaatgagtag	ectgodecac	atcactetee	tcattacact
481	catataacto	ctaaccacac	cctctatcct	actggcaact	accagiging	aaagatgtca
541	gagtagaaag	gaccagtgac	tratratte	tacaaggaaa	astattage	aaayatgtca
601	aageetatat	catataaact	cgatgeett	racaayyaaa	catettacae	tacaaccatc
661	aagcetgege	aaaaccaaacc	taattaatat	acttacacag	agattgaacc	aaaattggat
721	gggcattaca	aaaayyataa	ttttattat	acagagcagc	Clatagacct	tgtaccaact
721	actastast	taaatgcgag	asasasatta	ttcaaactca	catgutetaa	cacaaaattt
7 O I	acattettee	cadalcadal	gadaggette	acaaagccag	cttcacgaga	gctatctgtc
011	acattcccc	cayactigaa	tggcgatgta	gtggctattg	actatagaca	ctattcagcg
901	agetteaaga	aaggrgcraa	actactgcat	aagccaattg	tttggcacat	taaccaggct
1021 TOC	acaaccaaga	caacgilcaa	accaaacact	tggtgtttac	gttgtctttg	gagtacaaag
1021	ccagtagata	cttcaaattc	acttgaagtt	ctggcagtag	aagacacaca	aggaatggac
1001	aatettgett	gtgaaagtca	acaacccacc	tctgaagaag	tagtggaaaa	tcctaccata
TT4T	cagaaggaag	tcatagagtg	tgacgtgaaa	actaccgaag	ttgtaggcaa	tgtcatactt
1201	aaaccatcag	atgaaggtgt	taaagtaaca	caagagttag	gtcatgagga	tcttatggct
T70T	gcttatgtgg	aaaacacaag	cattaccatt	aagaaaccta	atgagctttc	actagcctta
1321	ggtttaaaaa	caattgccac	tcatggtatt	gctgcaatta	atagtgttcc	ttggagtaaa
1381	attttggett	atgtcaaacc	attcttagga	caagcagcaa	ttacaacatc	aaattgcgct
1441	aagagattag	cacaacgtgt	gtttaacaat	tatatgcctt	atgtgtttac	attattgttc
1501	caattgtgta	cttttactaa	aagtaccaat	tctagaatta	gagcttcact	acctacaact
1561	attgctaaaa	atagtgttaa	gagtgttgct	aaattatgtt	tggatgccgg	cattaattat
1621	gtgaagtcac	ccaaattttc	taaattgttc	acaatcgcta	tgtggctatt	gttgttaagt
1681	atttgcttag	gttctctaat	ctgtgtaact	gctgcttttg	gtgtactctt	atctaatttt
1741	ggtgctcctt	cttattgtaa	tggcgttaga	gaattgtatc	ttaattcgtc	taacgttact
1801	actatggatt	tctgtgaagg	ttcttttcct	tgcagcattt	gtttaagtgg	attagactcc
1861	cttgattctt	atccagctct	tgaaaccatt	caggtgacga	tttcatcgta	caagctagac
1921	ttgacaattt	taggtctggc	cgctgagtgg	gttttggcat	atatgttgtt	cacaaaattc
1981	ttttattat	taggtettte	agctataatg	caggtgttct	ttggctattt	tgctagtcat
2041	ttcatcagca	attettgget	catgtggttt	atcattagta	ttgtacaaat	ggcacccgtt
2101	tetgeaatgg	ttaggatgta	catcttcttt	gcttctttct	actacatatg	gaagagctat
S191	gttcatatca	tggatggttg	cacctcttcg	acttgcatga	tgtgctataa	gcgcaatcgt
2221	gccacacgcg	ttgagtgtac	aactattgtt	aatggcatga	agagatcttt	ctatgtctat
2281	gcaaatggag	gccgtggctt	ctgcaagact	cacaattgga	attgtctcaa	ttgtgacaca
2341	ttttgcactg	gtagtacatt	cattagtgat	gaagttgctc	gtgatttgtc	actccagttt
2401	aaaagaccaa	tcaaccctac	tgaccagtca	tcgtatattg	ttgatagtgt	tgctgtgaaa
2461	aatggcgcgc	ttcacctcta	ctttgacaag	gctggtcaaa	agacctatga	gagacatccg
2521	ctctcccatt	ttgtcaattt	agacaatttg	agagctaaca	acactaaagg	ttcactgcct
2581	attaatgtca	tagtttttga	tggcaagtcc	aaatgcgacg	agtctgcttc	taagtctgct
2641	tctgtgtact	acagtcagct	gatgtgccaa	cctattctgt	tgcttgacca	agctcttgta
2701	tcagacgttg	gagatagtac	tgaagtttcc	gttaagatgt	ttgatgctta	tgtcgacacc
2761	ttttcagcaa	cttttagtgt	tcctatggaa	aaacttaagg	cacttgttgc	tacagctcac
2821	agcgagttag	caaagggtgt	agctttagat	ggtgtccttt	ctacattcgt	gtcagctgcc
2881	cgacaaggtg	ttgttgatac	cgatgttgac	acaaaggatg	ttattgaatg	tctcaaactt
2941	tcacatcact	ctgacttaga	agtgacaggt	gacagttgta	acaatttcat	gctcacctat
3001	aataaggttg	aaaacatgac	gcccagagat	cttggcgcat	gtattgactg	taatgcaagg
3061	catatcaatg	cccaagtagc	aaaaagtcac	aatgtttcac	tcatctggaa	tgtaaaagac
3121	tacatgtctt	tatctgaaca	gctgcgtaaa	caaattcgta	gtgctgccaa	gaagaacaac
3181	atacctttta	gactaacttg	tgctacaact	agacaggttg	tcaatgtcat	aactactaaa
3241	atctcactca	agggtggtaa	gattgttagt	acttgtttta	aacttatgct	taaggccaca
3301	ttattgtgcg	ttcttgctgc	attggtttgt	tatatcgtta	tgccagtaca	tacattgtca
3361	atccatgatg	gttacacaaa	tgaaatcatt	ggttacaaag	ccattcagga	tggtgtcact
3421	cgtgacatca	tttctactga	tgattgtttt	gcaaataaac	atgctggttt	tgacgcatgg
3481	tttagccagc	gtggtggttc	atacaaaaat	gacaaaagct	gccctgtagt	agctgctatc
3541	attacaagag	agattggttt	catagtgcct	ggcttaccgg	gtactgtgct	gagagcaatc
3601	aatggtgact	tcttgcattt	tctacctcgt	gtttttagtg	ctgttggcaa	catttqctac
			_	-		

FIGURE 11B

3661 acaccttcca aactcattga gtatagtgat tttgctacct ctgcttgcgt tcttgctgct . 3721 gagtgtacaa tttttaagga tgctatgggc aaacctgtgc catattgtta tgacactaat 3781 ttgctagagg gttctatttc ttatagtgag cttcgtccag acactcgtta tgtgcttatg 3841 gatggttcca tcatacagtt tcctaacact tacctggagg gttctgttag agtagtaaca 3901 acttttgatg ctgagtactg tagacatggt acatgcgaaa ggtcagaagt aggtatttgc 3961 ctatctacca gtggtagatg ggttcttaat aatgagcatt acagagctct atcaggagtt 4021 ttctgtggtg ttgatgcgat gaatctcata gctaacatct ttactcctct tgtgcaacct 4081 gtgggtgctt tagatgtgtc tgcttcagta gtggctggtg gtattattgc catattggtg 4141 acttgtgctg cctactactt tatgaaattc agacgtgttt ttggtgagta caaccatgtt 4201 gttgctgcta atgcactttt gtttttgatg tctttcacta tactctgtct ggtaccagct 4261 tacagettte tgeegggagt etacteagte ttttacttgt aettgaeatt etattteace 4321 aatgatgttt cattettgge teacetteaa tggtttgeea tgttttetee tattgtgeet 4381 ttttggataa cagcaatcta tgtattctgt atttctctga agcactgcca ttggttcttt 4441 aacaactatc ttaggaaaag agtcatgttt aatggagtta catttagtac cttcgaggag 4501 gctgctttgt gtaccttttt gctcaacaag gaaatgtacc taaaattgcg tagcgagaca 4561 ctgttgccac ttacacagta taacaggtat cttgctctat ataacaagta caagtatttc 4621 agtggagcct tagatactac cagctatcgt gaagcagctt gctgccactt agcaaaggct 4681 ctaaatgact ttagcaactc aggtgctgat gttctctacc aaccaccaca gacatcaatc 4741 acttctgctg ttctgcagag tggttttagg aaaatggcat tcccgtcagg caaagttgaa 4801 gggtgcatgg tacaagtaac ctgtggaact acaactctta atggattgtg gttggatgac 4861 acagtatact gtccaagaca tgtcatttgc acagcagaag acatgcttaa tcctaactat 4921 gaagatetge teattegeaa atecaaceat agetttettg tteaggetgg caatgtteaa 4981 cttcgtgtta ttggccattc tatgcaaaat tgtctgctta ggcttaaagt tgatacttct 5041 aaccctaaga cacccaagta taaatttgtc cgtatccaac ctggtcaaac attttcagtt 5101 ctagcatgct acaatggttc accatctggt gtttatcagt gtgccatgag acctaatcat 5161 accattaaag gttctttcct taatggatca tgtggtagtg ttggttttaa cattgattat 5221 gattgcgtgt ctttctgcta tatgcatcat atggagcttc caacaggagt acacgctggt 5281 accgacttag aaggtaaatt ctatggtcca tttgttgaca gacaaactgc acaggctgca 5341 ggtacagaca caaccataac attaaatgtt ttggcatggc tgtatgctgc tgttatcaat 5401 ggtgataggt ggtttcttaa tagattcacc actactttga atgactttaa ccttgtggca 5461 atgaagtaca actatgaacc tttgacacaa gatcatgttg acatattggg acctctttct 5521 gctcaaacag gaattgccgt cttagatatg tgtgctgctt tgaaagagct gctgcagaat 5581 ggtatgaatg gtcgtactat ccttggtagc actattttag aagatgagtt tacaccattt 5641 gatgttgtta gacaatgctc tggtgttacc ttccaaggta agttcaagaa aattgttaag 5701 ggcactcatc attggatgct tttaactttc ttgacatcac tattgattct tgttcaaagt 5761 acacagtggt cactgttttt ctttgtttac gagaatgctt tcttgccatt tactcttggt 5821 attatggcaa ttgctgcatg tgctatgctg cttgttaagc ataagcacgc attcttgtgc 5881 ttgtttctgt taccttctct tgcaacagtt gcttacttta atatggtcta catgcctgct 5941 agctgggtga tgcgtatcat gacatggctt gaattggctg acactagctt gtctggttat 6001 aggettaagg attgtgttat gtatgettea getttagttt tgettattet catgacaget 6061 cgcactgttt atgatgatgc tgctagacgt gtttggacac tgatgaatgt cattacactt 6121 gtttacaaag tctactatgg taatgcttta gatcaagcta tttccatgtg ggccttagtt 6181 atttctgtaa cctctaacta ttctggtgtc gttacgacta tcatgttttt agctagagct 6241 atagtgtttg tgtgttga gtattatcca ttgttattta ttactggcaa caccttacag 6301 tgtatcatgc ttgtttattg tttcttaggc tattgttgct gctgctactt tggccttttc 6361 tgtttactca accgttactt caggcttact cttggtgttt atgactactt ggtctctaca 6421 caagaattta ggtatatgaa ctcccagggg cttttgcctc ctaagagtag tattgatgct 6481 ttcaagctta acattaagtt gttgggtatt ggaggtaaac catgtatcaa ggttgctact 6541 gtacagtcta aaatgtctga cgtaaagtgc acatctgtgg tactgctctc ggttcttcaa 6601 caacttagag tagagtcatc ttctaaattg tgggcacaat gtgtacaact ccacaatgat 6661 attettettg caaaagacae aactgaaget ttegagaaga tggtttetet tttgtetgtt 6721 ttgctatcca tgcagggtgc tgtagacatt aataggttgt gcgaggaaat gctcgataac 6781 cgtgctactc ttcaggctat tgcttcagaa tttagttctt taccatcata tgccgcttat 6841 gccactgccc aggaggccta tgagcaggct gtagctaatg gtgattctga agtcgttctc 6901 aaaaagttaa agaaatettt gaatgtgget aaatetgagt ttgaccgtga tgetgecatg 6961 caacgcaagt tggaaaagat ggcagatcag gctatgaccc aaatgtacaa acaggcaaga 7021 tctgaggaca agagggccca agtcgcttct gctatgcaaa caatgctctt cactatgcta 7081 aggaagettg ataatgatge acttaacaac attatcaaca atgegegtga tggttgtt 7141 ccactcaaca tcataccatt gactacagca gccaaactca tggttgttgt ccctgattat 7201 ggtacctaca agaacacttg tgatggtaac acctttacat atgcatctgc actctgggaa 7261 atccagcaag tigttgatgc ggatagcaag attgttcaac ttagtgaaat taacatggac 7321 aattcaccaa atttggcttg gcctcttatt gttacagctc taagagccaa ctcagctgtt

FIGURE 11C

7381	aaactacaga	ataatgaact	gagtccagta	gcactacgac	agatgtggtg	tgcggctggt
7441	accacacaaa	cagettgtae	tgatgacaat	gcactacgae	agacyccccy	ttcgaaggga
7501	ggtaggtttg	tactageatt	actatcacac	caccaagate	tasastasa	togaaggga
7561	aagagtgatg	gtacaggtac	astttacaca	gaactagaac	ccaaatgggc	cagatteeet
7621	dacacaccaa	aadddcctaa	actocacaca	ttataatta	tanagast	gittgttaca
7681	gacacaccaa	taatactaa	cactttacet	actions	ccaaaggett	aaacaaccta
7741	aatagaggta	ctacaaatta	cagillagel	getacageae	gtcttcaggc	tggaaatget
7001	acagaagtac	orgodated	aactgtgctt	teettetgtg	cttttgcagt	agaccctgct
7001	aaagcatata	aggattacct	agcaagtgga	ggacaaccaa	tcaccaactg	tgtgaagatg
7001	ttgtgtacac	acactggtac	aggacaggca	attactgtaa	caccagaagc	taacatggac
7921	caagagtcct	ttggtggtgc	ttcatgttgt	ctgtattgta	gatgccacat	tgaccatcca
7981	aatcctaaag	gattetgtga	cttgaaaggt	aagtacgtcc	aaatacctac	cacttgtgct
8041	aatgacccag	tgggttttac	acttagaaac	acagtctgta	ccgtctgcgg	aatgtggaaa
8101	ggttatggct	gtagttgtga	ccaactccgc	gaacccttga	tgcagtctgc	ggatgcatca
8191	acgtttttaa	acgggtttgc	ggtgtaagtg	cagcccgtct	tacaccgtgc	ggcacaggca
8221	ctagtactga	tgtcgtctac	agggcttttg	atatttacaa	cgaaaaagtt	gctggttttg
8281	caaagttcct	aaaaactaat	tgctgtcgct	tccaggagaa	ggatgaggaa	ggcaatttat
8341	tagactctta	ctttgtagtt	aagaggcata	ctatgtctaa	ctaccaacat	qaaqaqacta
8401	tttataactt	ggttaaagat	tgtccagcgg	ttgctgtcca	tgactttttc	aagtttagag
8461	tagatggtga	catggtacca	catatatcac	gtcagcgtct	aactaaatac	acaatggctg
8221	atttagtcta	tgctctacgt	cattttgatg	agggtaattg	tgatacatta	aaagaaatac
8281	tegteacata	caattgctgt	gatgatgatt	atttcaataa	gaaggattgg	tatgacttcg
8641	tagagaatcc	tgacatctta	cgcgtatatg	ctaacttagg	tgagcgtgta	cgccaatcat
8701	tattaaagac	tgtacaattc	tgcgatgcta	tgcgtgatgc	aggcattgta	ggcgtactga
8761	cattagataa	tcaggatett	aatgggaact	ggtacgattt	cggtgatttc	gtacaagtag
8821	caccaggetg	cggagttcct	attgtggatt	catattactc	attqctqatq	cccatcctca
8881	ctttgactag	ggcattggct	gctgagtccc	atatqqatqc	tgatctcgca	aaaccactta
8941	ttaagtggga	tttgctgaaa	tatgatttta	cqqaaqaqaq	actttatctc	ttcgaccgtt
9001	attttaaata	ttgggaccag	acataccatc	ccaattqtat	taactgtttg	gatgataggt
9061	gtatccttca	ttgtgcaaac	tttaatgtgt	tattttctac	tatatttcca	cctacaagtt
9121	ttggaccact	agtaagaaaa	atatttgtag	atggtgttcc	ttttattatt	tcaactggat
9181	accattttcg	tgagttagga	gtcgtacata	atcaggatgt	aaacttacat	agetegegte
9241	tcagtttcaa	ggaactttta	gtgtatqctq	ctgatccagc	tatqcatqca	acttctaaca
9301	atttattgct	agataaacgc	actacatqct	tttcaqtaqc	tgcactaaca	aacaatotto
9361	cttttcaaac	tgtcaaaccc	ggtaatttta	ataaaqactt	ttatgacttt	actatatata
9421	aaggtttctt	taaggaagga	agttctgttg	aactaaaaca	cttcttcttt	gctcaggatg
9481	gcaacgctgc	tatcagtgat	tatgactatt	atcottataa	tctgccaaca	atgrataata
9541	tcagacaact	cctattcgta	gttgaagttg	ttgataaata	ctttgattgt	tacgatggtg
9601	gctgtattaa	tgccaaccaa	gtaatcgtta	acaatctgga	taaatcagct	ggtttcccat
9661	ttaataaatg	gggtaaggct	agactttatt	atgactcaat	gagttatgag	gatcaagatg
9721	cacttttcgc	gtatactaag	cgtaatqtca	tccctactat	aactcaaato	aatcttaagt
9781	atgccattag	tgcaaagaat	agagetegea	ccataactaa	totctctatc	totagtacta
9841	tgacaaatag	acagtttcat	cagaaattat	tgaagtcaat	agecgecaet	agaggageta
9901	ctgtggtaat	tggaacaagc	aaqttttacq	ataactaaca	taatatotta	aaaactgttt
9961	acagtgatgt	agaaactcca	caccttatag	gttgggatta	tccaaaatgt	gacagagcca
10021	tgcctaacat	gcttaggata	atggcctctc	ttattettae	tcgcaaacat	aacacttoct
10081	gtaacttatc	acaccotttc	tacaggttag	ctaacgagtg	tacacaaata	ttaadtdada
10141	tggtcatgtg	tagcaactca	ctatatotta	aaccaggtgg	aacatcatcc	aataataata
10201	caactgctta	tgctaatagt	gtctttaaca	tttatcaaac	tottacacco	aatotaaato
10261	cacttctttc	aactgatggt	aataagatag	ctgacaagta	tatecaset	ctacaacaca
10321	ggctctatga	gtatctctat	agaaataggg	atottoatca	tgaattcata	natrantet
10381	acgcttacct	gcgtaaacat	ttetecatea	tgattctttc	tgatgatgag	attatatact
10441	ataacagtaa	ctatacaact	caaggtttag	tagetagest	taagaagtee	aaggaagtta
10501	tttattatca	aaataatoto	ttcatotcto	aggraaaatg	ttagec	aayycaytto

FIGURE 12A

	1 attagcgat	a tgtatgacc	c taggaccaa	a catotoaca:	a aagagaatga	a ctctaaagaa
6	1 gggtttttc	a cttatctqt	g tggatttat	a cacgegaeae	aayayaalya Tagaaataga	tggttctata
12	1 gctgtaaag	a taacagage	a ttcttggaa	t actaecett	cageeetgge	g tygttetata gggeeattte
18	1 tcatggtgg	a cagettttg	t tacaaatgt	a aatggattaat	acaagettat	gggccatttc attttaatt
24	1 ggggctaac	t atcttggca	accusadas:	a datytattat	. categgaage	gcatgctaac
30	1 tacattttc	t ggaggaaca	c aaatootat	cadaliyati	gotataccat	ctttgacatg
36	1 agcaaattt	C Ctcttaaati	. Aaggggaaac	t cayinging	cctattcact	ctttgacatg gaatcaaatc
42	1 aatgatatg	a tttattctct	teterassas	golylaalgi	ccctaagga	gaatcaaatc
48	l attataatt	t caagtgatat	tettettaa	a ggraggerra	tcattagaga	aaacaacaga
54	1 tttcttact	c tractagter	tectgetaa	aactaaacga	acatgtttat	tttcttatta
6 Ó	1 gctcctaat	t acactcaaca	s tacttcatch	yaceggegea	ccacttttga	tgatgttcaa
66	1 tttagatca	acactetta	tttaactcac	- argaggggg	tttactatcc	tgatgaaatt
72	1 acagggttt	c atactattas	tcatacetat	g galllaltto	trecattta	ttctaatgtt
78	1 atttatttt	g ctaccaceae	. ceacacyce	- gycaaccetg	tcataccttt	taaggatggt
84	l atgaacaac	a agtrarage	· gadactaaal	grigicogig	grigggittt	tggttctacc
90	l gcatgtaact	ttgaattgto	taacaacaat	. allageaatt	ctactaatgt	tgttatacga
96	l cagacacata	e ctatoatatt	cgataatcci	ttettegetg	tttctaaacc	catgggtaca
102	l goottttog	: ttgatgtttc	. egacaatge	cctaattgca	ctttcgagta	catatctgat
108	l tttaaaaata	a aagatgggtc	. agaaaaguud	ggtaatttta	aacacttacg	agagtttgtg
1141	l cataatata	: cttctaattt	taacacttto	Lacaaggget	arcaacctat	agagtttgtg
120	l aacattacaa	attttagagg	Cattottaga	adacctattt	ttaagttgcc	tcttggtatt catttggggc
1261	L acqtcaqctc	. caccctattt	tattaaatst	ttanana	ctgctcaaga	catttggggc
1321	L gatgaaaato	g cagcctattt	agetgggtat	claaagccaa	ctacatttat	gctcaagtat
1381	L aaatgetete	, staagagett	tagacyclycl	gattgetete	aaaacccact	tgctgaactc
144]	lattattacet	ttaagagett	tatasastta	aaaggaattt	accagacete	taatttcagg
1501	L gaggttttta	caggagatgt	atteestest	cclaatatta	caaacttgtg	tccttttgga
1561	aattgtgtt	atgctactaa ctgattactc	tatactataa	gictatgcat	gggagagaaa	aaaaatttct
1621	. tatggcgttt	ctgattactc ctgccactaa	attaattat	addicadcat	tttttcaac	ctttaagtgc
1681	. tttgtagtca	agggagatga	totaacacaa	ataggettet	ccaatgtcta	tgcagattct
	. gattataatt	agggagatga ataaattgcc	agatgattta	atagegeeag	gacaaactgg	tgttattgct
1801	aacattgatg	ctacttcaac	tagtaattat	argggrigtg	tccttgcttg	gaatactggg
1861	. aagcttaggc	cctttgagag	agacatatet	aatotooott	tataggtatet	tagacatggc
1921	tgcaccccac	ctgctcttaa	ttattatta	Coattaaata	reteceetga	tggcaaacct
1981	actqqcattq	gctaccaacc	ttacagagtt	gtagtagtt	attatggttt	ttacaccact
2041	ccggccacqq	tttgtggacc	aaaattatcc	actgacetta	ttaagaaga	tttaaatgca
2101	tttaatttta	atggactcac	tagtactagt	atattaacta	cttattann	grarate
2161	ccatttcaac	aatttggccg	tgatgtttch	gatttcactc	attecatte	gagatttcaa
2221	acatctgaaa	tattagacat	ttcaccttcc	tettttaaaa	atataaatat	agatectaaa
2281	ggaacaaatg	cttcatctga	agttgctgtt	ctatatcaac	atottaacto	aattacacct
2341	tctacagcaa	ttcatgcaga	tcaactcaca	ccaacttaac	gratatatte	tactoring
2401	aatgtattt	agactcaage	aggetatett	ataggagetg	agratgtega	asattattat
2461	gagtgcgaca	ttcctattgg	agctggcatt	tatacteatt	accatacact	ttatttatta
	cycaytatta	gccaaaaatç	tattqtqqct	tatachator	ctttaggtgc	tastsattas
2301	accycliact	Claataacac	cattqctata	cctactaact	tttcaattac	Cattactaca
2041	gaagtaatge	CLULLECTAE	ggctaaaacc	tecetaeatt	atastatata	a > t a t = a = = =
2/01	gattetatty	aatgtgctaa	tttqcttctc	caatatoota	acttttacac	accade
2.01		Laggially	Luctuaacad	garcgcaaca	cacotoaact.	attacatass
2021	gicadacada	Lycacaaaac	cccaacttc	aaatattttd	ataatttaa	+++++
2001	acaccaccty	acceletaaa	gccaactaag	aggtettta	ttaaaaaatt	accettte.
2731	aaggegacac	regergates	caactcata	aaqqaatatq	acasstacet	aggtgatatt
J 0 0 1	aucyclagag	accidatiliq	Lucucadaad	ttcaatggac	ttacactctt	acasactata
3001	cccactgatg	acacyactyc	tqcctacact	actactetaa	ttagtggtag	tacasataat
J 1 2 1	ggatggatat	ttggtgctgg	cactactet	caaatacctt	ttactataca	aataaaatat
2101	aggittaatg	ycartygagt	cacccaaaac	gttctctata .	adaaccaaaa	2022210000
3471	adctaattta	acaayycqat	tagtcaaatt	caagaatcac	ttacaacaac	atoaagtgga
3 2 O T	cugggcaage	Lgcaagacgt	tattaaccaa	aatgeteaag :	cattaaacac :	acttettaaa
	Caaccagcc	Claattigg	tqcaatttca	agtgtgctaa .	atratatort i	ttaaaaaatt
7421	gacaaagtty	ayycygaggc	acaaattgac	addttaatta /	cancener!	+ < > > > < < < + > +
JAOT	caaacctaty	Laacacaaca	actaatcadd	actactadaa (traggggtta	taataata
7741	googocacta	aaauqucuqa	qtatattet.	ggacaatcaa :	aaamamttma /	0++++a+a-
3601	aagggctacc	accttatgtc	cttcccacaa	gcagececae a	atgatattat (cttoctacat
					JJ - J J	

FIGURE 12B

3661	gtcacgtatg	tgccatccca	ggagaggaac	ttcaccacag	cgccagcaat	ttgtcatgaa
3721	ggcaaagcat	acttccctcg	tgaaggtgtt	tttgtgttta	atggcacttc	ttggtttatt
3781	acacagagga	acttcttttc	tccacaaata	attactacag	acaatacatt	tgtctcagga
3841	aattgtgatg	tcgttattgg	catcattaac	aacacagttt	atgatectet	graacetgag
3901	cttgactcat	tcaaagaaga	gctggacaag	tacttcaaaa	atcatacatc	accagatgtt
336T	gatettggeg	acatttcagg	cattaacgct	tctatcatca	acattcaaaa	agaaattgac
4021	cgcctcaatg	aggtcgctaa	aaatttaaat	gaatcactca	ttgaccttca	agaattggge
4081	aaatatgagc	aatatattaa	atqqccttqq	tatatttaac	tcggcttcat	tactagacta
4141	attgccatcg	tcatggttac	aatcttgctt	tattacataa	ctagttgttg	tagttgcctc
4201	aagggtgcat	gctcttgtgg	ttcttqctqc	aaqtttqatq	aggatgactc	tgagccagtt
4261	ctcaagggtg	tcaaattaca	ttacacataa	acgaacttat	ggatttgttt	atgagatttt
4321	ttactcttgg	atcaattact	gcacagccag	taaaaactga	caatgettet	cctgcaagta
4381	ctgttcatgc	tacagcaacg	ataccgctac	aagcctcact	ccctttcgga	taacttatta
4441	ttggcgttgc	atttcttgct	gtttttcaqa	gcgctaccaa	aataattoco	ctcaataaaa
45 U L	gatggcagct	agccctttat	aagggcttcc	agttcattto	caatttacto	ctactattta
4561	ttaccatcta	ttcacatctt	ttgcttgtcq	ctqcaqqtat	ggaggggaa	tttttgtacc
4621	tctatgcctt	gatatacttt	ctacaatgca	tcaacgcatg	tagaattatt	atg

FIGURE 13

. 1	aaagaacctt	gcccatcagc	aacatacqaq	ggcaattcac	catttcaccc	tcttgctgac
61	aataaatttg	cactaacttg	cactagcaca	cactttqctt	ttacttatac	tgacggtact
121	cgacatacct	atcagctgcg	tgcaagatca	gtttcaccaa	aacttttcat	cagacaagag
181	gaggttcaac	aagagctcta	ctcgccactt	tttctcattq	ttactactct	agtattttta
241	atactttgct	tcaccattaa	gagaaagaca	gaatgaatga	gctcacttta	attgacttct
301	atttgtgctt	tttagccttt	ctgctattcc	ttgttttaat	aatgcttatt	atattttggt
361	tttcactcga	aatccaggat	ctagaaqaac	cttqtaccaa	agtctaaacg	aacatgaaac
421	ttctcattgt	tttgacttgt	atttctctat	gcagttgcat	atgcactgta	gtacagcgct
481	gtgcatctaa	taaacctcat	gtgcttgaag	atccttgtaa	ggtacaacac	taggggtaat
541	acttatagca	ctgcttggct	ttgtgctcta	ggaaaggttt	taccttttca	tagatggcac
601	actatggttc	aaacatgcac	acctaatqtt	actatcaact	gtcaagatcc	agctggtggt
661	gcgcttatag	ctaggtgttg	gtaccttcat	qaaqqtcacc	aaactgctgc	atttagagac
721	gtacttgttg	ttttaaataa	acgaacaaat	taaaatqtct	gataatggac	cccaatcaaa
781	ccaacgtagt	gccccccgca	ttacatttqq	tggacccaca	gattcaactg	acaataacca
841	gaatggagga	cgcaatgggg	caaggccaaa	acaqcqccqa	ccccaaggtt	tacccaataa
901	tactgcgtct	tggttcacag	ctctcactca	qcatqqcaaq	gaggaactta	gattccctcg
961	aggccagggc	gttccaatca	acaccaataq	tggtccagat	gaccaaattg	gctactaccg
1021	aagagctacc	cgacgagttc	gtggtggtga	cggcaaaatg	aaaqaqctca	gccccagatg
1081	gtacttctat	tacctaggaa	ctggcccaga	agcttcactt	ccctacqqcq	ctaacaaaga
1141	aggcatcgta	tgggttgcaa	ctgagggagc	cttgaataca	cccaaaqacc	acattggcac
1201	ccgcaatcct	aataacaatg	ctgccaccgt	gctacaactt	cctcaaqqaa	caacattacc
1261	aaaaggcttc	tacgcagagg	gaagcagagg	cqqcaqtcaa	qcctcttctc	gctcctcatc
T 3 % T	acgtagtcgc	ggtaattcaa	gaaattcaac	tectggcage	aqtaqqqaa	attctcctqc
T38T	tcgaatggct	agcggaggtg	gtgaaactgc	cctcgcgcta	ttgctgctag	acagattgaa
1441	ccagcttgag	agcaaagttt	ctggtaaagg	ccaacaacaa	caaqqccaaa	ctqtcactaa
T20T	gaaatctgct	gctgaggcat	ctaaaaagcc	tcgccaaaaa	cqtacaqcca	caaaacaqta
129T	caacgtcact	caagcatttg	ggagacgtgg	tccagaacaa	acccaaqqaa	atttcqqqqa
TPST	ccaagaccta	accagacaag	gaactgatta	caaacattgg	ccgcaaattq	cacaatttqc
Test	tccaagtgcc	tctgcattct	ttggaatgtc	acgcattggc	atggaagccg	caccttcqqq
1741	aacatggctg	acttatcatg	gagccattaa	attggatgac	aaagatccac	aattcaaaga
TROT	caacgtcata	ctgctgaaca	agcacattga	cgcatacaaa	acattcccac	caacagagcc
1891	taaaaaggac	aaaaagaaaa	agactgatga	agctcagcct	ttqccqcaqa	gacaaaagaa
1921	gcagcccact	gtgactcttc	ttcctgcggc	tgacatggat	gatttctcca	gacaacttca
1981	aaattccatg	agtggagctt	ctgctgattc	aactcaggca	taaacactca	tgatgaccac
2041	acaaggcaga	tgggctatgt	aaacgttttc	gcaattccgt	ttacqataca	tagtctactc
2101	ttgtgcagaa	tgaattctcg	taactaaaca	gcacaagtag	qtttaqttaa	ctttaatctc
5191	acatagcaat	ctttaatcaa	tgtgtaacat	tagggaggac	ttgaaagagc	caccacattt
2221	tcatcgaggc	cacgcggagt	acgatcgagg	gtacagtgaa	taatgctagg	gagagctgcc
2281	tatatggaag	agccctaatg	tgta			_

Figure 14A

I caagtette aaaaccattg ttgagteetg eggtaactat aaagttacca agggaaagce 61 cgtaaaaggt gcttggaaca ttggacaaca gagatcagtt ttaacaccac tgtgtggttt 121 teceteacag getgetggtg ttateagate aatttttgeg egeacaettg atgeageaaa 181 ccactcaatt cetgatttge aaagageage tgteaceata ettgatggta tttetgaaca 241 gicattacgi citgicgacg ccatggitta tacticagac cigcicacca acagigicat 301 tattatggca tatgtaactg gtggtcttgt acaacagact tctcagtggt tgtctaatct 361 tttgggcact actgttgaaa aactcaggcc tatctttgaa tggattgagg cgaaacttag 421 tgcaggagtt gaatttctca aggatgcttg ggagattctc aaatttctca ttacaggtgt 481 ttttgacatc gtcaagggtc aaatacaggt tgcttcagat aacatcaagg attgtgtaaa 541 atgetteatt gatgttgtta acaaggeact egaaatgtge attgateaag teactatege 601 tggcgcaaag ttgcgatcac tcaacttagg tgaagtcttc atcgctcaaa gcaagggact 661 ttaccgtcag tgtatacgtg gcaaggagca gctgcaacta ctcatgcctc ttaaggcacc 721 aaaagaagta acctttcttg aaggtgatte acatgacaca gtacttacct ctgaggaggt 781 tgttctcaag aacggtgaac tcgaagcact cgagacgccc gttgatagct tcacaaatgg 841 agctategtt ggeacaceag tetgtgtaaa tggeeteatg etettagaga ttaaggaeaa 901 agaacaatac tgcgcattgt ctcctggttt actggctaca aacaatgtct ttcgcttaaa 961 agggggtgca ccaattaaag gtgtaacctt tggagaagat actgtttggg aagttcaagg 1021 ttacaagaat gtgagaatca catttgagct tgatgaacgt gttgacaaag tgcttaatga 1081 aaagtgetet gtetacaetg ttgaateegg tacegaagtt aetgagtttg eatgtgttgt 1141 agcagagget gttgtgaaga etttacaace agtttetgat etcettacea acatgggtat 1201 tgatcttgat gagtggagtg tagctacatt ctacttattt gatgatgctg gtgaagaaaa 1261 cttttcatca cgtatgtatt gttcctttta ccctccagat gaggaagaag aggacgatgc 1321 agagtgtgag gaagaagaaa ttgatgaaac ctgtgaacat gagtacggta cagaggatga 1381 ttatcaaggt ctccctctgg aatttggtgc ctcagctgaa acagttcgag ttgaggaaga 1441 agaagaggaa gactggctgg atgatactac tgagcaatca gagattgagc cagaaccaga 1501 acctacacct gaagaaccag ttaatcagtt tactggttat ttaaaactta ctgacaatgt 1561 tgccattaaa tgtgttgaca ccgttaagga ggcacaaagt gctaatccta tggtgattgt 1621 aaatgetget aacatacace tgaaacatgg tggtggtgta geaggtgeae teaacaagge 1681 aaccaatggt gccatgcaaa aggagagtga tgattacatt aagctaaatg gccctcttac 1741 agtaggaggg tettgtttge tttetggaca taatettget aagaagtgte tgeatgttgt 1801 tggacctaac ctaaatgcag gtgaggacat ccagcttctt aaggcagcat atgaaaattt 1861 caattcacag gacatcttac ttgcaccatt gttgtcagca ggcatatttg gtgctaaacc 1921 acttcagtct ttacaagtgt gcgtgcagac ggttcgtaca caggtttata ttgcagtcaa 1981 tgacaaaget etttatgage aggttgteat ggattatett gataacetga ageetagagt 2041 ggaagcacct aaacaagagg agccaccaaa cacagaagat tccaaaactg aggagaaatc 2101 tgtcgtacag aagcctgtcg atgtgaagcc aaaaattaag gcctgcattg atgaggttac 2161 cacaacactg gaagaaacta agtttcttac caataagtta ctcttgtttg ctgatatcaa 2221 tggtaagett taccatgatt etcagaacat gettagaggt gaagatatgt ettteettga 2281 ggaggatgca ccttacatgg taggtgatgt tatcactagt ggtgatatca cttgtgttgt 2341 aataccetee aaaaaggetg gtggeactae tgagatgete teaagagett tgaagaaagt 2401 gccagttgat gagtatataa ccacgtaccc tggacaagga tgtgctggtt atacacttga 2461 ggaagctaag actgetetta agaaatgeaa atetgeattt tatgtaetae etteagaage 2521 acctaatget aaggaagaga ttetaggaac tgtateetgg aatttgagag aaatgettge 2581 tcatgctgaa gaggcaagaa aattaatgcc tatatgcatg gatgttagag ccataatggc 2641 aaccatccaa cgtaagtata aaggagttaa aattcaagag ggcatcgttg actatggtgt 2701 ccgaticite titiatacta giaaagagee igiagettet aitattaega agetgaacte 2761 tetaaatgag cegettgtea caatgeeaat tggttatgtg acaeatggtt ttaatettga 2821 agaggetgeg egetgtatge gttetettaa ageteetgee gtagtgteag tateateace 2881 agatgctgtt actacatata atggatacct cacttcgtca tcaaagacat ctgaggagca 2941 ctttgtagaa acagtttett tggctggete ttacagagat tggteetatt caggacageg 3001 tacagagtta ggtgttgaat ttcttaagcg tggtgacaaa attgtgtacc acaccctgga

Figure 14B

3061	gageccegte gagttteate ttgaeggtga ggttetttea ettgaeaaae taaagagtet
3121	cttatccctg cgggaggtta agactataaa agtgttcaca actgtggaca acactaatct
3181	ccacacacag cttgtggata tgtctatgac atatggacag cagtttggtc caacatactt
3241	ggatggtgct gatgttacaa aaattaaacc tcatgtaaat catgagggta agactttctt
3301	tgtactacct agtgatgaca cactacgtag tgaagctttc gagtactacc atactcttga
3361	tgagagtttt cttggtaggt acatgtctgc tttaaaccac acaaagaaat ggaaatttcc
3421	tcaagttggt ggtttaactt caattaaatg ggctgataac aattgttatt tgtctagtgt
3481	titattagea etteaaeage tigaagteaa atteaatgea eeageaette aagagg

FIGURE 15A

1 caaaataatg tgttcatgtc tgaggcaaaa tgttggactg agactgacct tactaaagga 61 cctcacgaat tttgctcaca gcatacaatg ctagttaaac aaggagatga ttacgtgtac 121 etgeettace cagatecate aagaatatta ggegeagget gttttgtega tgatattgte 181 aaaacagatg gtacacttat gattgaaagg ttcgtgtcac tggctattga tgcttaccca 241 cttacaaaac atcctaatca ggagtatgct gatgtctttc acttgtattt acaatacatt 301 agaaagttac atgatgagct tactggccac atgttggaca tgtattccgt aatgctaact 361 aatgataaca ceteaeggta etgggaacet gagttttatg aggetatgta cacaccacat 421 acagtettge aggetgtagg tgettgtgta ttgtgcaatt cacagactte acttegttge 481 ggtgcctgta ttaggagacc actcctatgt tgcaagtgct gctatgacca tgtcatttca 541 acateacaca aattagtgtt gtetgttaat eectatgttt geaatgeece aggttgtgat 601 gtcactgatg tgacacaact gtatctagga ggtatgagct attattgcaa gtcacataag 661 cctcccatta gttttccatt atgtgctaat ggtcaggttt ttggtttata caaaaacaca 721 tgtgtaggca gtgacaatgt cactgacttc aatgcgatag caacatgtga ttggactaat 781 getggegatt acatacttge caacacttgt aetgagagae teaagetttt egeageagaa 841 acgctcaaag ccactgagga aacatttaag ctgtcatatg gtattgccac tgtacgcgaa 901 gtactetetg acagagaatt geatetttea tgggaggttg gaaaacetag aceaecattg 961 aacagaaact atgtctttac tggttaccgt gtaactaaaa atagtaaagt acagattgga 1021 gagtacacct ttgaaaaagg tgactatggt gatgctgttg tgtacagagg tactacgaca 1081 tacaagttga atgttggtga ttactttgtg ttgacatctc acactgtaat gccacttagt 1141 geacetacte tagtgecaea agageaetat gtgagaatta etggettgta eccaacacte 1201 aacateteag atgagtttte tageaatgtt geaaattate aaaaggtegg eatgeaaaag 1261 tactetacae tecaaggace acetggtact ggtaagagte attttgeeat eggacttget 1321 ctctattacc catctgctcg catagtgtat acggcatgct ctcatgcagc tgttgatgcc 1381 ctatgtgaaa aggcattaaa atatttgccc atagataaat gtagtagaat catacctgcg 1441 cgtgcgcgcg tagagtgttt tgataaattc aaagtgaatt caacactaga acagtatgtt 1501 tictgeactg taaatgeatt geeagaaaca aetgetgaea tigtagtett igatgaaate 1561 tctatggcta ctaattatga cttgagtgtt gtcaatgcta gacttcgtgc aaaacactac 1621 gtctatattg gcgatcctgc tcaattacca gcccccgca cattgctgac taaaggcaca 1681 ctagaaccag aatattttaa ttcagtgtgc agacttatga aaacaatagg tccagacatg 1741 ttccttggaa cttgtcgccg ttgtcctgct gaaattgttg acactgtgag tgctttagtt 1801 tatgacaata agctaaaagc acacaaggag aagtcagctc aatgcttcaa aatgttctac 1861 aaaggtgtta ttacacatga tgtttcatct gcaatcaaca gacctcaaat aggcgttgta 1921 agagaattic ttacacgcaa tcctgcttgg agaaaagctg tttttatctc accttataat 1981 tcacagaacg ctgtagette aaaaatetta ggattgeeta egeagaetgt tgatteatea 2041 cagggttctg aatatgacta tgtcatattc acacaaacta ctgaaacagc acactcttgt 2101 aatgtcaacc gcttcaatgt ggctatcaca agggcaaaaa ttggcatttt gtgcataatg 2161 tetgataggg atetttatga caaactgeaa tttacaagte tagaaatace aegtegeaat 2221 gtggctacat tacaagcaga aaatgtaact ggacttttta aggactgtag taagatcatt 2281 actggtcttc atcctacaca ggcacctaca cacctcagcg ttgatataaa gttcaagact 2341 gaaggattat gtgttgacat accaggcata ccaaaggaca tgacctaccg tagactcatc 2401 tctatgatgg gtttcaaaat gaattaccaa gtcaatggtt accctaatat gtttatcacc 2461 cgcgaagaag ctattcgtca cgttcgtgcg tggattggct ttgatgtaga gggctgtcat 2521 gcaactagag atgctgtggg tactaaccta cetetecage taggatttte tacaggtgtt 2581 aacttagtag ctgtaccgac tggttatgtt gacactgaaa ataacacaga attcaccaga 2641 gitaatgcaa aacctccacc aggtgaccag titaaacatc ttataccact catgtataaa 2701 ggcttgccct ggaatgtagt gcgtattaag atagtacaaa tgctcagtga tacactgaaa 2761 ggattgtcag acagagtcgt gttcgtcctt tgggcgcatg gctttgagct tacatcaatg 2821 aagiactitg tcaagattgg acctgaaaga acgtgttgtc tgtgtgacaa acgtgcaact 2881 tgcttttcta cttcatcaga tacttatgcc tgctggaatc attctgtggg ttttgactat 2941 gictataacc catttatgat tgatgttcag cagtggggct ttacgggtaa ccttcagagt 3001 aaccatgace aacattgeea ggtacatgga aatgeacatg tggetagttg tgatgetate

FIGURE 15B

3061 atgactagat gtttagcagt ccatgagtgc tttgttaagc gcgttgattg gtctgttgaa 3121 taccctatta taggagatga actgagggtt aattctgctt gcagaaaagt acaacacatg 3181 gttgtgaagt ctgcattgct tgctgataag tttccagttc ttcatgacat tggaaatcca 3241 aaggetatea agtgtgtgee teaggetgaa gtagaatgga agttetaega tgeteageea 3301 tgtagtgaca aagettacaa aatagaggaa etettetatt ettatgetae acateaegat 3361 aaattcactg atggtgtttg titgttttgg aattgtaacg ttgatcgtta cccagccaat 3421 gcaattgtgt gtaggtttga cacaagagtc ttgtcaaact tgaacttacc aggctgtgac 3481 ggtggtagtt tgtatgtgaa taagcatgca ttccacactc cagctttcga taaaagtgca 3541 titactaatt taaagcaatt geetttett taetattetg atagteettg tgagteteat 3601 ggcaaacaag tagtgtcgga tattgattat gttccactca aatctgctac gtgtattaca 3661 cgatgcaatt taggtggtgc tgtttgcaga caccatgcaa atgagtaccg acagtacttg 3721 gatgcatata atatgatgat ttctgctgga tttagcctat ggatttacaa acaatttgat 3781 acttataacc tgtggaatac atttaccagg ttacagagtt tagaaaatgt ggcttataat 3841 gttgttaata aaggacactt tgatggacac gccggcgaag cacctgtttc catcattaat 3901 aatgetgttt acacaaaggt agatggtatt gatgtggaga tetttgaaag taagacaaca 3961 cttcctgtta atgttgcatt tgagctttgg gctaagcgta acattaaacc agtgccagag 4021 attaagatac tcaataattt gggtgttgat atcgctgcta atactgtaat ctgggactac 4081 aaaagagaag ccccagcaca tgtgtctaca ataggtgtct gcacaatgac tgacattgcc 4141 aagaaaccta ctgagagtgc ttgttcttca cttactgtct tgtttgatgg tagagtggaa 4201 ggacaggtag acctttttag aaacgcccgt aatggtgttt taataacaga aggttcagtc 4261 aaaggtetaa eacetteaaa gggaceagea eaagetageg teaatggagt eacattaatt 4321 ggagaatcag taaaaacaca gtttaactac tttaagaaag tagacggcat tattcaacag 4381 ttgcctgaaa cctactttac tcagagcaga gacttagagg attttaagcc cagatcacaa 4441 atggaaactg actttctcga gctcgctatg gatgaattca tacagcgata taagctcgag 4501 ggctatgcct tcgaacacat cgtttatgga gatttcagtc atggacaact tggcggtctt 4561 catttaatga taggettage caagegetea caagatteae caettaaatt agaggatttt 4621 atccctatgg acagcacagt gaaaaattac ttcataacag atgcgcaaac aggttcatca 4681 aaatgtgtgc gttctgtgat tgatctttta cttgatgact ttgtcgagat aataaagtca 4741 caagattigt cagtgattic aaaagtggtc aaggttacaa ttgactatgc tgaaatttca 4801 ttcatgcttt ggtgtaagga tggacatgtt gaaaccttct acccaaaact acaagcaagt 4861 caagegtgge aaccaggtgt tgcgatgcct aacttgtaca agatgcaaag aatgcttett 4921 gaaaagtgtg accttcagaa ttatggtgaa aatgctgtta taccaaaagg aataatgatg 4981 aatgtegeaa agtataetea aetgtgteaa taettaaata eaettaettt agetgtaeee 5041 tacaacatga gagttattca ctttggtgct ggctctgata aaggagttgc accaggtaca 5101 getgtgetea gaeaatggtt geeaactgge acaetaettg tegatteaga tettaatgae 5161 ttcgtctccg acgcagattc tactttaatt ggagactgtg caacagtaca tacggctaat 5221 aaatgggacc ttattattag cgatatgtat gaccctagga cc

FIGURE 16

1 cattacttta tgatgccaac tactttgttt gctggcacac acataactat gactactgta 61 taccatataa cagtgtcaca gatacaattg tcgttactga aggtgacggc atttcaacac 121 caaaactcaa agaagactac caaattggtg gttattctga ggataggcac tcaggtgtta 181 aagactatgt cgttgtacat ggctatttca ccgaagttta ctaccagctt gagtctacac 241 aaattactac aaacactggt attgaaaatg ctacattctt catctttaac aagcttgtta 301 aagacccacc gaatgtgcaa atacacacaa tcgacggctc ttcaggagtt gctaatccag 361 caatggatcc aatttatgat gagccgacga cgactactag cgtgcctttg taagcacaag 421 aaagtgagta cgaacttatg tactcattcg tttcggaaga aacaggtacg ttaatagtta 481 atagcgtact tcttttctt gccttcgtgg tattcttgct agtcacacta gccatcctta 541 ctgcgcttcg attgtgtgcg tactgctgca atattgttaa cgtgagttta gtaaaaccaa 601 cggtttacgt ctactcgcgt gttaaaaatc tgaactctcc tgaaggagtt cctgatcttc 661 tggtctaaac gaactaacta ttattattat tctgtttgga actttaacat tgcttatcat 721 ggcagacaac ggtactatta ccgttgagga gcttaaacaa ctcctggaac aatggaacct 781 agtaataggt ttcctattcc tagcctggat tatgttacta caatttgcct attctaatcg 841 gaacaggttt ttgtacataa taaagcttgt tttcctctgg ctcttgtggc cagtaacact 901 tgcttgtttt gtgcttgctg ctgtctacag aattaattgg gtgactggcg ggattgcgat 961 tgcaatggct tgtattgtag gcttgatgtg gcttagctac ttcgttgctt ccttcaggct 1021 gtttgctcgt acccgctcaa tgtggtcatt caacccggaa acaaacattc ttcccaatgt 1081 gcctctccgg gggacaattg tgaccagacc gctcatggaa agtgaacttg tcattggtgc 1141 tgtgatcatt cgtggtcact tgcgaatggc cggacactcc ctagggcgct gtgacattaa 1201 ggacctgcca aaagagatca ctgtggctac atcacgaacg ctttcttatt acaaattagg 1261 agcgtcgcag cgtgtaggca ctgattcagg ttttgctgca tacaaccgct accgtattgg 1321 aaactataaa ttaaatacag accacgccgg tagcaacgac aatattgctt tgctagtaca 1381 gtaagtgaca acagatgttt catcttgttg acttccaggt tacaatagca gagatattga 1441 ttatcattat gaggactttc aggattgcta tttggaatct tgacgttata ataagttcaa 1501 tagtgagaca attatttaag cetetaacta agaagaatta tteggagtta gatgatgaag 1561 aacctatgga gttagattat ccataaaacg aacatgaaaa ttattctctt cctgacattg 1621 attgtattta catcttgcga gctatatcac tatcaggagt gtgttagagg tacgactgta 1681 ctactaaaag aaccttgccc atcagcaaca tacgagggca attcaccatt tcaccctctt 1741 getgacaata aatttgeact aacttgeact ageaeaeact ttgettttge ttgtgetgae 1801 g

FIGURE 17

1 aaagaacett geeeateage aacataegag ggeaatteae eattteaeee tettgetgae 61 aataaattig cactaactig cactagcaca cactitgctt tigctigtgc tgacggtact 121 cgacatacct atcagctgcg tgcaagatca gtttcaccaa aacttttcat cagacaagag 181 gaggttcaac aagagctcta ctcgccactt titctcattg ttgctgctct agtattttta 241 atactttgct tcaccattaa gagaaagaca gaatgaatga gctcacttta attgacttct 301 attigigett ittageetti eigetattee tigititaat aatgettatt atattitggi 361 tttcactcga aatccaggat ctagaagaac cttgtaccaa agtctaaacg aacatgaaac 421 ttctcattgt tttgacttgt atttctctat gcagttgcat atgcactgta gtacagcgct 481 gtgcatctaa taaacctcat gtgcttgaag atccttgtaa ggtacaacac taggggtaat 541 acttatagea etgettgget ttgtgeteta ggaaaggitt tacettitea tagatggeae 601 actatggtte aaacatgeae acctaatgtt actateaact gteaagatee agetggtggt 661 gegettatag etaggtgttg gtacetteat gaaggteace aaactgetge atttagagae 721 gtactigitg tittaaataa acgaacaaat taaaatgtci gataatggac cccaatcaaa 781 ccaacgtagt gcccccgca ttacatttgg tggacccaca gattcaactg acaataacca 841 gaatggagga cgcaatgggg caaggccaaa acagcgccga ccccaaggtt tacccaataa 901 tactgcgtct tggttcacag ctctcactca gcatggcaag gaggaactta gattccctcg 961 aggccagggc gttccaatca acaccaatag tggtccagat gaccaaattg gctactaccg 1021 aagagetace egacgagtte gtggtggtga eggeaaaatg aaagagetea geeceagatg 1081 gtacttctat tacctaggaa ctggcccaga agcttcactt ccctacggcg ctaacaaaga 1141 aggcatcgta tgggttgcaa ctgagggagc cttgaataca cccaaagacc acattggcac 1201 ccgcaatcct aataacaatg ctgccaccgt gctacaactt cctcaaggaa caacattgcc 1261 aaaaggette taegeagagg gaageagagg eggeagteaa geetettete geteeteate 1321 acgtagtcgc ggtaattcaa gaaattcaac tcctggcagc agtaggggaa attctcctgc 1381 tcgaatggct agcggaggtg gtgaaactgc cctcgcgcta ttgctgctag acagattgaa 1441 ccagcttgag agcaaagttt ctggtaaagg ccaacaacaa caaggccaaa ctgtcactaa 1501 gaaatetget getgaggeat etaaaaagee tegecaaaaa egtacageea caaaacagta 1561 caacgtcact caagcatttg ggagacgtgg tccagaacaa acccaaggaa atttcgggga 1621 ccaagaccta atcagacaag gaactgatta caaacattgg ccgcaaattg cacaatttgc 1681 tecaagtgee tetgeattet ttggaatgte aegeattgge atggaageeg eacetteggg 1741 aacatggctg acttatcatg gagccattaa attggatgac aaagatccac aattcaaaga 1801 caacgicata cigcigaaca agcacatiga cgcatacaaa acattcccac caacagagcc 1861 taaaaaggac aaaaagaaaa agactgatga agctcagcct ttgccgcaga gacaaaagaa 1921 geageceact gtgactette tteetgegge tgacatggat gattteteea gacaacttea 1981 aaattccatg agtggagctt ctgctgattc aactcaggca taaacactca tgatgaccac 2041 acaaggcaga tgggctatgt aaacgttttc gcaattccgt ttacgataca tagtctactc 2101 ttgtgcagaa tgaattctcg taactaaaca gcacaagtag gtttagttaa ctttaatctc 2161 acatagcaat ctttaatcaa tgtgtaacat tagggaggac ttgaaagagc caccacattt 2221 tcatcgaggc cacgcggagt acgatcgagg gtacagtgaa taatgctagg gagagctgcc 2281 tatatggaag agccctaatg tgta

FIGURE 18A

1 caagtettte aaaaccattg ttgagteetg eggtaactat aaagttacca agggaaagce 61 cgtaaaaggt gcttggaaca ttggacaaca gagatcagtt ttaacaccac tgtgtggttt 121 teceteacag getgetggtg ttateagate aatttttgeg egeacaettg atgeageaaa 181 ccactcaatt cctgatttgc aaagagcagc tgtcaccata cttgatggta tttctgaaca 241 gtcattacgt cttgtcgacg ccatggttta tacttcagac ctgctcacca acagtgtcat 301 tattatggca tatgtaactg gtggtcttgt acaacagact tctcagtggt tgtctaatct 361 tttgggcact actgttgaaa aactcaggcc tatctttgaa tggattgagg cgaaacttag 421 tgcaggagtt gaatttctca aggatgcttg ggagattctc aaatttctca ttacaggtgt 481 ttttgacatc gtcaagggtc aaatacaggt tgcttcagat aacatcaagg attgtgtaaa 541 atgetteatt gatgttgtta acaaggeact egaaatgtge attgateaag teactatege 601 tggcgcaaag ttgcgatcac tcaacttagg tgaagtcttc atcgctcaaa gcaagggact 661 ttaccgtcag tgtatacgtg gcaaggagca gctgcaacta ctcatgcctc ttaaggcacc 721 aaaagaagta acctttcttg aaggtgattc acatgacaca gtacttacct ctgaggaggt 781 tgttctcaag aacggtgaac tcgaagcact cgagacgccc gttgatagct tcacaaatgg 841 agctategtt ggeacaceag tetgtgtaaa tggeeteatg etettagaga ttaaggacaa 901 agaacaatac tgcgcattgt ctcctggttt actggctaca aacaatgtct ttcgcttaaa 961 agggggtgca ccaattaaag gtgtaacctt tggagaagat actgtttggg aagttcaagg 1021 ttacaagaat gtgagaatca catttgagct tgatgaacgt gttgacaaag tgcttaatga 1081 aaagtgetet gtetacaetg ttgaateegg tacegaagtt aetgagtttg eatgtgttgt 1141 agcagagget gttgtgaaga etttacaace agtttetgat etcettacea acatgggtat 1201 tgatcttgat gagtggagtg tagctacatt ctacttattt gatgatgctg gtgaagaaaa 1261 cttttcatca cgtatgtatt gttcctttta ccctccagat gaggaagaag aggacgatgc 1321 agagtgtgag gaagaagaaa ttgatgaaac ctgtgaacat gagtacggta cagaggatga 1381 ttatcaaggt ctccctctgg aatttggtgc ctcagctgaa acagttcgag ttgaggaaga 1441 agaagaggaa gactggctgg atgatactac tgagcaatca gagattgagc cagaaccaga 1501 acctacacct gaagaaccag ttaatcagtt tactggttat ttaaaactta ctgacaatgt 1561 tgccattaaa tgtgttgaca ccgttaagga ggcacaaagt gctaatccta tggtgattgt 1621 aaatgetget aacatacace tgaaacatgg tggtggtgta geaggtgeae teaacaagge 1681 aaccaatggt gccatgcaaa aggagagtga tgattacatt aagctaaatg gccctcttac 1741 agtaggaggg tettgtttge tttetggaca taatettget aagaagtgte tgeatgttgt 1801 tggacctaac ctaaatgcag gtgaggacat ccagcttctt aaggcagcat atgaaaattt 1861 caattcacag gacatcttac ttgcaccatt gttgtcagca ggcatatttg gtgctaaacc 1921 acttcagtct ttacaagtgt gcgtgcagac ggttcgtaca caggtttata ttgcagtcaa 1981 tgacaaagct ctttatgagc aggttgtcat ggattatctt gataacctga agcctagagt 2041 ggaagcacct aaacaagagg agccaccaaa cacagaagat tccaaaactg aggagaaatc 2101 tgtcgtacag aagcctgtcg atgtgaagcc aaaaattaag gcctgcattg atgaggttac 2161 cacaacactg gaagaaacta agtttcttac caataagtta ctcttgtttg ctgatatcaa 2221 tggtaagett taccatgatt etcagaacat gettagaggt gaagatatgt ettteettga 2281 ggaggatgca ccttacatgg taggtgatgt tatcactagt ggtgatatca cttgtgttgt 2341 aataccetee aaaaaggetg gtggeactae tgagatgete teaagagett tgaagaaagt 2401 gccagttgat gagtatataa ccacgtaccc tggacaagga tgtgctggtt atacacttga 2461 ggaagctaag actgctctta agaaatgcaa atctgcattt tatgtactac cttcagaagc 2521 acctaatgct aaggaagaga ttctaggaac tgtatcctgg aatttgagag aaatgcttgc 2581 tcatgctgaa gaggcaagaa aattaatgcc tatatgcatg gatgttagag ccataatggc

FIGURE 18B

2641 aaccatecaa egtaagtata aaggagttaa aatteaagag ggeategttg actatggtgt 2701 cegattette tittataeta gtaaagagee tgtagettet attattaega agetgaaete 2761 tetaaatgag eegettgtea eaatgeeaat tggttatgtg acacatggtt ttaatettga 2821 agaggetgeg egetgtatge gitetettaa ageteetgee gtagtgteag tateateaee 2881 agatgetgtt aetaeatata atggataeet eaettegtea teaaagaeat etgaggagea 2941 etitgtagaa aeagtitett tggetggete ttaeagagat tggteetatt eaggaeageg 3001 taeagagtia ggtgttgaat itettaageg tggtgacaaa attgtgtaee aeaecetgga 3061 gageeegte gagtiteate itgaeggtga ggitetttea eitgaeaaae taaagagtet 3121 etiaeeetg egggaggtta agaetataaa agtgiteaea aeitgtggaea aeaetaatet 3181 ceaeaeaeag eitgiggata itgetatgae atatggaeag eagitiggte eaaeataett 3241 ggatggtget gatgitaeaa aaattaaaee teatgiaaat eatgagggta agaetitett 3301 itgaeaeete gatgatgaea eaetaegtag itgaagetite gagtaetaee ataetetiga 3361 itgagagtitt eitggtaggt aeatgetege ittaaaeeae aeaaagaaat ggaaatttee 3421 teaagitggt ggittaaeti eaattaaatg ggetgataae aattgitatt itgietagtgt 3481 ittaatagea eiteaaeae itgaagteaa atteaatgea eeageaette aagagg

FIGURE 19

1 cattacttta tgatgccaac tactttgttt gctggcacac acataactat gactactgta 61 taccatataa cagtgtcaca gatacaattg tcgttactga aggtgacggc atttcaacac 121 caaaactcaa agaagactac caaattggtg gttattctga ggataggcac tcaggtgtta 181 aagactatgt cgttgtacat ggctatttca ccgaagttta ctaccagctt gagtctacac 241 aaattactac aaacactggt attgaaaatg ctacattctt catctttaac aagcttgtta 301 aagacccacc gaatgtgcaa atacacacaa tcgacggctc ttcaggagtt gctaatccag 361 caatggatcc aatttatgat gagccgacga cgactactag cgtgcctttg taagcacaag 421 aaagtgagta cgaacttatg tactcattcg tttcggaaga aacaggtacg ttaatagtta 481 atagcgtact tettttett geettegtgg tattettget agteacacta geeateetta 541 ctgcgcttcg attgtgtgcg tactgctgca atattgttaa cgtgagtita gtaaaaccaa 601 cggtttacgt ctactcgcgt gttaaaaatc tgaactctcc tgaaggagtt cctgatcttc 661 tggtctaaac gaactaacta ttattattat tctgtttgga actttaacat tgcttatcat 721 ggcagacaac ggtactatta ccgttgagga gcttaaacaa ctcctggaac aatggaacct 781 agtaataggt ttcctattcc tagcctggat tatgttacta caatttgcct attctaatcg 841 gaacaggttt ttgtacataa taaagcttgt tttcctctgg ctcttgtggc cagtaacact 901 tgcttgtttt gtgcttgctg ctgtctacag aattaattgg gtgactggcg ggattgcgat 961 tgcaatggct tgtattgtag gcttgatgtg gcttagctac ttcgttgctt ccttcaggct 1021 gtttgctcgt accegctcaa tgtggtcatt caacceggaa acaaacattc ttcccaatgt 1081 gcctctccgg gggacaattg tgaccagacc gctcatggaa agtgaacttg tcattggtgc 1141 tgtgatcatt cgtggtcact tgcgaatggc cggacactcc ctagggcgct gtgacattaa 1201 ggacctgcca aaagagatca ctgtggctac atcacgaacg ctttcttatt acaaattagg 1261 agcgtcgcag cgtgtaggca ctgattcagg ttttgctgca tacaaccgct accgtattgg 1321 aaactataaa ttaaatacag accacgccgg tagcaacgac aatattgctt tgctagtaca 1381 gtaagtgaca acagatgttt catcttgttg acttccaggt tacaatagca gagatattga 1441 ttatcattat gaggactttc aggattgcta tttggaatct tgacgttata ataagttcaa 1501 tagtgagaca attatttaag cetetaacta agaagaatta tteggagtta gatgatgaag 1561 aacctatgga gttagattat ccataaaacg aacatgaaaa ttattctctt cctgacattg 1621 attgtattta catcttgcga gctatatcac tatcaggagt gtgttagagg tacgactgta 1681 ctactaaaag aaccttgccc atcagcaaca tacgagggca attcaccatt tcaccctctt 1741 getgacaata aatttgeact aacttgeact ageacacact ttgettttge ttgtgetgac 1801 g

FIGURE 20

1 tetgtgtage tgtegetegg etgeatgeet agtgeaceta egeagtataa acaataataa 61 attitactgt cgttgacaag aaacgagtaa ctcgtccctc ttctgcagac tgcttacggt 121 ttcgtccgtg ttgcagtcga tcatcagcat acctaggttt cgtccgggtg tgaccgaaag 181 gtaagatgga gagcettgtt ettggtgtea acgagaaaac acaegteeaa eteagtttge 241 ctgtccttca ggttagagac gtgctagtgc gtggcttcgg ggactctgtg gaagaggccc 301 tateggagge aegtgaacae etcaaaaatg geaettgtgg tetagtagag etggaaaaag 361 gcgtactgcc ccagcttgaa cagccctatg tgttcattaa acgttctgat gccttaagca 421 ccaatcacgg ccacaaggte gttgagetgg ttgcagaaat ggacggcatt cagtacggte 481 gtagcggtat aacactggga gtactcgtgc cacatgtggg cgaaacccca attgcatacc 541 gcaatgttet tettegtaag aaeggtaata agggageegg tggteatage tatggeateg 601 atctaaagte ttatgactta ggtgacgage ttggcactga teccattgaa gattatgaac 661 aaaactggaa cactaagcat ggcagtggtg cactccgtga actcactcgt gagctcaatg 721 gaggtgtagt cactcgctat gtcgacaaca atttctgtgg cccagatggg taccctcttg 781 attgcatcaa agattttcta gcacgcggg gcaagtcaat gtgcactctt tccgaacaac 841 ttgattacat cgagtcgaag agaggtgtct actgctgccg tgaccatgag catgaaattg 901 cctggttcac tgagcgctct gataagagct gcgagcacca gacacccttc gaaattaaga 961 gtgccaagaa atttgacact ttcaaagggg aatgcccaaa gtttgtgttt cctcttaact 1021 caaaagtcaa agtcattcaa ccacgtgttg aaaagaaaaa gactgagggt ttcatggggc 1081 gtatacgctc tgtgtaccct gttgcatctc cacaggagtg taacaatatg cacttgtcta 1141 cettgatgaa atgtaateat tgcgatgaag tttcatggca gacgtgcgac tttctgaaag 1201 ccacttgtga acattgtggc actgaaaatt tagttattga aggacctact acatgtgggt 1261 acctacctac taatgctgta gtgaaaatgc catgtcctgc ctgtcaagac ccagagattg 1321 gacctgagca tagtgttgca gattatcaca accactcaaa cattgaaact cgactccgca 1381 agggaggtag gactagatgt tttggaggct gtgtgtttgc ctatgttggc tgctataata 1441 agegtgeeta etgggtteet egtgetagtg etgatattgg etcaggeeat aetggeatta 1501 ctggtgacaa tgtggagacc ttgaatgagg atctccttga gatactgagt cgtgaacgtg 1561 ttaacattaa cattgitggc gattttcatt tgaatgaaga ggttgccatc attttggcat 1621 ctttctctgc ttctacaagt gcctttattg acactataaa gagtcttgat tacaagtctt 1681 tcaaaaccat tgttgagtcc tgcggt

FIGURE 21 (A)

l agigittiat tagcactica acagcitgaa gicaaattca atgcaccagc acticaagag 61 gettattata gagecegtge tggtgatget getaaetttt gtgeaeteat aetegettae 121 agtaataaaa ctgttggcga gcttggtgat gtcagagaaa ctatgaccca tcttctacag 181 catgctaatt tggaatctgc aaagcgagtt cttaatgtgg tgtgtaaaca ttgtggtcag 241 aaaactacta cettaacggg tgtagaaget gtgatgtata tgggtactet atettatgat 301 aatettaaga caggtgttte catteeatgt gtgtgtggte gtgatgetae acaatateta 361 gtacaacaag agtettettt tgttatgatg tetgeaceae etgetgagta taaattacag 421 caaggtacat tettatgtge gaatgagtae aetggtaaet ateagtgtgg teattacaet 481 catataactg ctaaggagac cctctatcgt attgacggag ctcaccttac aaagatgtca 541 gagtacaaag gaccagtgac tgatgttttc tacaaggaaa catcttacac tacaaccatc 601 aagcetgtgt egtataaact egatggagtt aettaeaeag agattgaace aaaattggat 661 gggtattata aaaaggataa tgcttactat acagagcagc ctatagacct tgtaccaact 721 caaccattac caaatgcgag ttttgataat ttcaaactca catgttctaa cacaaaattt 781 gctgatgatt taaatcaaat gacaggcttc acaaagccag cttcacgaga gctatctgtc 841 acattettee cagactigaa tggegatgta gtggetattg actatagaea etatteageg 901 agtttcaaga aaggtgctaa attactgcat aagccaattg tttggcacat taaccaggct 961 acaaccaaga caacgttcaa accaaacact tggtgtttac gttgtctttg gagtacaaag 1021 ccagtagata cttcaaattc atttgaagtt ctggcagtag aagacacaca aggaatggac 1081 aatettgett gtgaaagtea acaacceace tetgaagaag tagtggaaaa teetaceata 1141 cagaaggaag tcatagagtg tgacgtgaaa actaccgaag ttgtaggcaa tgtcatactt 1201 aaaccatcag atgaaggtgt taaagtaaca caagagttag gtcatgagga tcttatggct 1261 gettatgtgg aaaacacaag cattaccatt aagaaaccta atgagettte actageetta 1321 ggtttaaaaa caattgccac tcatggtatt gctgcaatta atagtgttcc ttggagtaaa 1381 attttggett atgtcaaacc attettagga caagcagcaa ttacaacate aaattgcget 1441 aagagattag cacaacgtgt gtttaacaat tatatgcctt atgtgtttac attattgttc 1501 caattgtgta ettttaetaa aagtaeeaat tetagaatta gagetteaet aeetaeaaet 1561 attgctaaaa atagtgttaa gagtgttgct aaattatgtt tggatgccgg cattaattat 1621 gtgaagtcac ccaaattttc taaattgttc acaatcgcta tgtggctatt gttgttaagt 1681 attigettag gitetetaat eigigtaact geigetitig gigtaetett atetaatiti 1741 ggtgctcctt cttattgtaa tggcgttaga gaattgtatc ttaattcgtc taacgttact 1801 actatggatt tetgtgaagg ttetttteet tgeageattt gtttaagtgg attagaetee 1861 cttgattctt atccagctct tgaaaccatt caggtgacga tttcatcgta caagctagac 1921 ttgacaattt taggtctggc cgctgagtgg gttttggcat atatgttgtt cacaaaattc 1981 ttttatttat taggtctttc agctataatg caggtgttct ttggctattt tgctagtcat 2041 ttcatcagca attcttggct catgtggttt atcattagta ttgtacaaat ggcacccgtt 2101 tetgeaatgg ttaggatgta catettettt gettetttet actacatatg gaagagetat 2161 gitcatatca tggatggttg caccicttcg acttgcatga tgtgctataa gcgcaatcgt 2221 gccacacgcg ttgagtgtac aactattgtt aatggcatga agagatcttt ctatgtctat 2281 gcaaatggag gccgtggctt ctgcaagact cacaattgga attgtctcaa ttgtgacaca 2341 ttttgcactg gtagtacatt cattagtgat gaagttgctc gtgatttgtc actccagttt 2401 aaaagaccaa tcaaccctac tgaccagtca tcgtatattg ttgatagtgt tgctgtgaaa 2461 aatggegege tteaceteta etttgacaag getggteaaa agaeetatga gagacateeg 2521 ctctcccatt ttgtcaattt agacaatttg agagctaaca acactaaagg ttcactgcct 2581 attaatgtca tagtttttga tggcaagtcc aaatgcgacg agtctgcttc taagtctgct 2641 tetgtgtact acagteaget gatgtgccaa cetattetgt tgettgacea agetettgta 2701 tcagacgttg gagatagtac tgaagtttcc gttaagatgt ttgatgctta tgtcgacacc 2761 ttttcagcaa cttttagtgt tcctatggaa aaacttaagg cacttgttgc tacagctcac 2821 agcgagttag caaagggtgt agctttagat ggtgtccttt ctacattcgt gtcagctgcc 2881 cgacaaggtg ttgttgatac cgatgttgac acaaaggatg ttattgaatg tctcaaactt 2941 tcacatcact ctgacttaga agtgacaggt gacagttgta acaatttcat gctcacctat 3001 aataaggttg aaaacatgac gcccagagat cttggcgcat gtattgactg taatgcaagg

FIGURE 21 (B)

3061 catateaatg eccaagtage aaaaagteae aatgttteae teatetggaa tgtaaaagae 3121 tacatgtett tatetgaaca getgegtaaa caaattegta gtgetgeeaa gaagaacaac 3181 atacctttta gactaacttg tgctacaact agacaggttg tcaatgtcat aactactaaa 3241 atctcactca agggtggtaa gattgttagt acttgtttta aacttatgct taaggccaca 3301 ttattgtgcg ttcttgctgc attggtttgt tatatcgtta tgccagtaca tacattgtca 3361 atccatgatg gttacacaaa tgaaatcatt ggttacaaag ccattcagga tggtgtcact 3421 cgtgacatca tttctactga tgattgtttt gcaaataaac atgctggttt tgacgcatgg 3481 tttagccage gtggtggtte atacaaaaat gacaaaaget geeetgtagt agetgetate 3541 attacaagag agattggttt catagtgcct ggcttaccgg gtactgtgct gagagcaatc 3601 aatggtgact tettgeattt tetacetegt gtttttagtg etgttggeaa catttgetae 3661 acaccttcca aactcattga gtatagtgat titgctacct cigctigcgt tetigcigct 3721 gagtgtacaa tttttaagga tgctatgggc aaacctgtgc catattgtta tgacactaat 3781 ttgctagagg gttctatttc ttatagtgag cttcgtccag acactcgtta tgtgcttatg 3841 gatggttcca tcatacagtt tcctaacact tacctggagg gttctgttag agtagtaaca 3901 actitigatg cigagiactg tagacatggi acatgcgaaa ggicagaagi aggiattigc 3961 ctatctacca gtggtagatg ggttcttaat aatgagcatt acagagctct atcaggagtt 4021 ttctgtggtg ttgatgcgat gaatctcata gctaacatct ttactcctct tgtgcaacct 4081 gtgggtgctt tagatgtgtc tgcttcagta gtggctggtg gtattattgc catattggtg 4141 acttgtgctg cctactactt tatgaaattc agacgtgttt ttggtgagta caaccatgtt 4201 gttgctgcta atgcactttt gtttttgatg tctttcacta tactctgtct ggtaccagct 4261 tacagettte tgeegggagt etaeteagte ttttaettgt aettgaeatt etattteace 4321 aatgatgttt cattettgge teacetteaa tggtttgeea tgttttetee tattgtgeet 4381 ttttggataa cagcaatcta tgtattctgt atttctctga agcactgcca ttggttcttt 4441 aacaactate ttaggaaaag agteatgttt aatggagtta eatttagtae ettegaggag 4501 getgetttgt gtacettttt geteaacaag gaaatgtace taaaattgeg tagegagaea 4561 ctgttgccac ttacacagta taacaggtat cttgctctat ataacaagta caagtatttc 4621 agtggageet tagatactae eagetategt gaageagett getgeeactt ageaaagget 4681 ctaaatgact ttagcaactc aggtgctgat gttctctacc aaccaccaca gacatcaatc 4741 actictgctg ttctgcagag tggttttagg aaaatggcat tcccgtcagg caaagttgaa 4801 gggtgcatgg tacaagtaac ctgtggaact acaactctta atggattgtg gttggatgac 4861 acagtatact gtccaagaca tgtcatttgc acagcagaag acatgcttaa tcctaactat 4921 gaagatetge teattegeaa atecaaceat agetttettg tteaggetgg caatgtteaa 4981 cttcgtgtta ttggccattc tatgcaaaat tgtctgctta ggcttaaagt tgatacttct 5041 aaccctaaga cacccaagta taaatttgtc cgtatccaac ctggtcaaac attttcagtt 5101 ctagcatgct acaatggttc accatctggt gtttatcagt gtgccatgag acctaatcat 5161 accattaaag gttctttcct taatggatca tgtggtagtg ttggttttaa cattgattat 5221 gattgcgtgt ctttctgcta tatgcatcat atggagcttc caacaggagt acacgctggt 5281 accgacttag aaggtaaatt ctatggtcca tttgttgaca gacaaactgc acaggctgca 5341 ggtacagaca caaccataac attaaatgtt ttggcatggc tgtatgctgc tgttatcaat 5401 ggtgataggt ggtttcttaa tagattcacc actactttga atgactttaa ccttgtggca 5461 atgaagtaca actatgaacc tttgacacaa gatcatgttg acatattggg acctctttct 5521 geteaaacag gaaitgeegt ettagatatg tgtgetgett tgaaagaget getgeagaat 5581 ggtatgaatg gicgtactat cettggtage actattitag aagatgagtt tacaccatti 5641 gatgttgtta gacaatgctc tggtgttacc ttccaaggta agttcaagaa aattgttaag 5701 ggcactcatc attggatgct tttaactitc ttgacatcac tattgattct tgttcaaagt 5761 acacagiggi cacigittit citigittac gagaatgett tettgecatt tactetiggi 5821 attatggcaa ttgctgcatg tgctatgctg cttgttaagc ataagcacgc attcttgtgc 5881 ttgtttctgt taccttctct tgcaacagtt gcttacttta atatggtcta catgcctgct 5941 agctgggtga tgcgtatcat gacatggctt gaattggctg acactagctt gtctggttat 6001 aggettaagg attgtgttat gtatgettea getttagttt tgettattet eatgacaget 6061 cgcactgttt atgatgatgc tgctagacgt gtttggacac tgatgaatgt cattacactt

FIGURE 21 (C)

6121 gtttacaaag tctactatgg taatgcttta gatcaagcta tttccatgtg ggccttagtt 6181 atttctgtaa cctctaacta ttctggtgtc gttacgacta tcatgttttt agctagagct 6241 atagtgtttg tgtgtgttga gtattatcca ttgttattta ttactggcaa caccttacag 6301 tgtatcatgc ttgtttattg tttcttaggc tattgttgct gctgctactt tggccttttc 6361 tgtttactca accettactt caggettact cttggtgttt atgactactt ggtctctaca 6421 caagaattta ggtatatgaa ctcccagggg cttttgcctc ctaagagtag tattgatgct 6481 ttcaagctta acattaagtt gttgggtatt ggaggtaaac catgtatcaa ggttgctact 6541 gtacagteta aaatgtetga egtaaagtge acatetgtgg tactgetete ggttetteaa 6601 caacttagag tagagtcatc ttctaaattg tgggcacaat gtgtacaact ccacaatgat 6661 attettettg caaaagacae aactgaaget ttegagaaga tggtttetet tttgtetgtt 6721 ttgctatcca tgcagggtgc tgtagacatt aataggttgt gcgaggaaat gctcgataac 6781 cgtgctactc ttcaggctat tgcttcagaa tttagttctt taccatcata tgccgcttat 6841 gccactgccc aggaggccta tgagcaggct gtagctaatg gtgattctga agtcgttctc 6901 aaaaagttaa agaaatettt gaatgtgget aaatetgagt ttgacegtga tgetgeeatg 6961 caacgcaagt tggaaaagat ggcagatcag gctatgaccc aaatgtacaa acaggcaaga 7021 tetgaggaca agagggecea agtegettet getatgeaaa caatgetett eaetatgeta 7081 aggaagettg ataatgatge acttaacaac attateaaca atgegegtga tggttgtgtt 7141 ccactcaaca tcataccatt gactacagca gccaaactca tggttgttgt ccctgattat 7201 ggtacctaca agaacacttg tgatggtaac acctttacat atgcatctgc actctgggaa 7261 atccagcaag ttgttgatgc ggatagcaag attgttcaac ttagtgaaat taacatggac 7321 aattcaccaa atttggcttg gcctcttatt gttacagctc taagagccaa ctcagctgtt 7381 aaactacaga ataatgaact gagtccagta gcactacgac agatgtcctg tgcggctggt 7441 accacacaa cagcttgtac tgatgacaat gcacttgcct actataacaa ttcgaaggga 7501 ggtaggtttg tgctggcatt actatcagac caccaagatc tcaaatgggc tagattccct 7561 aagagtgatg gtacaggtac aatttacaca gaactggaac caccttgtag gtttgttaca 7621 gacacaccaa aagggcctaa agtgaaatac ttgtacttca tcaaaggctt aaacaaccta 7681 aatagaggta tggtgctggg cagtttagct gctacagtac gtcttcaggc tggaaatgct 7741 acagaagtac etgecaatte aactgtgett teettetgtg ettttgeagt agaeeetget 7801 aaagcatata aggattacct agcaagtgga ggacaaccaa tcaccaactg tgtgaagatg 7861 ttgtgtacac acactggtac aggacaggca attactgtaa caccagaagc taacatggac 7921 caagagteet ttggtggtge tteatgttgt etgtattgta gatgeeacat tgaceateea 7981 aatectaaag gattetgtga ettgaaaggt aagtaegtee aaataectae eaettgtget 8041 aatgacccag tgggttttac acttagaaac acagtctgta ccgtctgcgg aatgtggaaa 8101 ggttatggct gtagttgtga ccaactccgc gaacccttga tgcagtctgc ggatgcatca 8161 acgtttttaa acgggtttgc ggtgtaagtg cagcccgtct tacaccgtgc ggcacaggca 8221 ctagtactga tgtcgtctac agggcttttg atatttacaa cgaaaaagtt gctggttttg 8281 caaagtteet aaaaactaat tgetgteget teeaggagaa ggatgaggaa ggeaatttat 8341 tagactetta etttgtagtt aagaggeata etatgtetaa etaceaacat gaagagaeta 8401 tttataactt ggttaaagat tgtccagcgg ttgctgtcca tgactttttc aagtttagag 8461 tagatggtga catggtacca catatatcac gtcagcgtct aactaaatac acaatggctg 8521 atttagtcta tgctctacgt cattttgatg agggtaattg tgatacatta aaagaaatac 8581 tegteacata caattgetgt gatgatgatt attteaataa gaaggattgg tatgaetteg 8641 tagagaatcc tgacatctta cgcgtatatg ctaacttagg tgagcgtgta cgccaatcat 8701 tattaaagac tgtacaattc tgcgatgcta tgcgtgatgc aggcattgta ggcgtactga 8761 cattagataa tcaggatctt aatgggaact ggtacgattt cggtgatttc gtacaagtag 8821 caccaggetg eggagtteet attgtggatt catattacte attgetgatg eccatectea 8881 ctttgactag ggcattggct gctgagtccc atatggatgc tgatctcgca aaaccactta 8941 Itaagtggga titigetgaaa talgattita eggaagagag actitigtete tiegaeegit 9001 attitaaata tigggaccag acataccatc ccaatigtat taacigtiig gatgataggi 9061 gtatccttca ttgtgcaaac tttaatgtgt tattttctac tgtgtttcca cctacaagtt 9121 ttggaccact agtaagaaaa atatttgtag atggtgttcc ttttgttgtt tcaactggat 9181 accattttcg tgagttagga gtcgtacata atcaggatgt aaacttacat agctcgcgtc

FIGURE 21 (D)

9241 tcagtttcaa ggaactttta gtgtatgctg ctgatccagc tatgcatgca gcttctggca 9301 atttattgct agataaacgc actacatgct tttcagtagc tgcactaaca aacaatgttg 9361 cttttcaaac tgtcaaaccc ggtaatttta ataaagactt ttatgacttt gctgtgtcta 9421 aaggtttett taaggaagga agttetgttg aactaaaaca ettettettt geteaggatg 9481 gcaacgctgc tatcagtgat tatgactatt atcgttataa tctgccaaca atgtgtgata 9541 teagacaact cetattegta gitgaagitg tigataaata etitgatigt taegatggtg 9601 getgtattaa tgccaaccaa gtaategtta acaatetgga taaateaget ggttteceat 9661 ttaataaatg gggtaaggct agactttatt atgactcaat gagttatgag gatcaagatg 9721 cactittege gtatactaag egtaatgtea teetactat aacteaaatg aatettaagt 9781 atgccattag tgcaaagaat agagctcgca ccgtagctgg tgtctctatc tgtagtacta 9841 tgacaaatag acagtttcat cagaaattat tgaagtcaat agccgccact agaggagcta 9901 ctgtggtaat tggaacaagc aagttttacg gtggctggca taatatgtta aaaactgttt 9961 acagtgatgt agaaactcca caccttatgg gttgggatta tccaaaatgt gacagagcca 10021 tgcctaacat gcttaggata atggcctctc ttgttcttgc tcgcaaacat aacacttgct 10081 gtaacttate acacegttte tacaggttag etaacgagtg tgegeaagta ttaagtgaga 10141 tggtcatgtg tggcggctca ctatatgtta aaccaggtgg aacatcatcc ggtgatgcta 10201 caactgetta tgetaatagt gtetttaaca tttgteaage tgttacagee aatgtaaatg 10261 cacttettte aactgatggt aataagatag etgacaagta tgteegcaat etacaacaca 10321 ggctctatga gtgtctctat agaaataggg atgttgatca tgaattcgtg gatgagtttt 10381 acgcttacct gcgtaaacat ttctccatga tgattctttc tgatgatgcc gttgtgtgct 10441 ataacagtaa ctatgcggct caaggtttag tagctagcat taagaacttt aaggcagttc 10501 tttattatca aaataatgtg ttcatgtctg aggcaaaatg ttggac

FIGURE 22

1 gtaccticat gaaggtcacc aaactgctgc atttagagac gtacttgttg ttttaaataa 61 acgaacaaat taaaatgtct gataatggac cccaatcaaa ccaacgtagt gcccccgca 121 ttacatttgg tggacccaca gattcaactg acaataacca gaatggagga cgcaatgggg 181 caaggecaaa acagegeega eeccaaggtt taeccaataa taetgegtet tggtteacag 241 ctctcactca gcatggcaag gaggaactta gattccctcg aggccagggc gttccaatca 301 acaccaatag tggtccagat gaccaaattg gctactaccg aagagctacc cgacgagttc 361 gtggtggtga cggcaaaatg aaagagctca gccccagatg gtacttctat tacctaggaa 421 ctggcccaga agetteaett ecetaeggeg etaacaaaga aggeategta tgggttgcaa 481 ctgagggagc cttgaataca cccaaagacc acattggcac ccgcaatcct aataacaatg 541 etgecacegt getacaactt ceteaaggaa caacattgee aaaaggette taegeagagg 601 gaagcagagg cggcagtcaa gcctcttctc gctcctcatc acgtagtcgc ggtaattcaa 661 gaaattcaac teetggeage agtaggggaa atteteetge tegaatgget ageggaggtg 721 gtgaaactgc cctcgcgcta ttgctgctag acagattgaa ccagcttgag agcaaagttt 781 ctggtaaagg ccaacaacaa caaggccaaa ctgtcactaa gaaatctgct gctgaggcat 841 ctaaaaagcc tcgccaaaaa cgtactgcca caaaacagta caacgtcact caagcatttg 901 ggagacgtgg tccagaacaa acccaaggaa atttcgggga ccaagaccta atcagacaag 961 gaactgatta caaacattgg ccgcaaattg cacaatttgc tccaagtgcc tctgcattct 1021 ttggaatgtc acgcattggc atggaagtca caccttcggg aacatggctg acttatcatg 1081 gagccattaa attggatgac aaagatccac aattcaaaga caacgtcata ctgctgaaca 1141 agcacattga cgcatacaaa acattcccac caacagagcc taaaaaggac aaaaagaaaa 1201 agactgatga agctcagcct ttgccgcaga gacaaaagaa gcagcccact gtgactcttc 1261 ttcctgcggc tgacatggat gatttctcca gacaacttca aaattccatg agtggagctt 1321 ctgctgattc aactcaggca taaacactca tgatgaccac acaaggcaga tgggctatgt 1381 aaacgttttc gcaattccgt ttacgataca tagtctactc ttgtgcagaa tgaattctcg 1441 taactaaaca gcacaagtag gtttagttaa ctttaatctc acatagcaat ctttaatcaa 1501 tgtgtaacat tagggaggac ttgaaagagc caccacattt tcatcgaggc cacgcggagt 1561 acgatcgagg gtacagtgaa taatgctagg gagagctgcc tatatggaag agccctaatg

FIGURE 23

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQGLPNNTASWFTALTQHGKEEL RFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKMKELSPRWYFYYLGTGPEASLPYGANKEG IVWVATEGALNTPKDHIGTRNPNNNAATVLQLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNS RNSTPGSSRGNSPARMASGGGETALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPR QKRTATKQYNVTQAFGRRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEV TPSGTWLTYHGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQ PTVTLLPAADMDDFSRQLQNSMSGASADSTQA

Figure 24

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQ
GLPNNTASWFTALTQHGKEELRFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKM
KELSPRWYFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVL
QLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGET
ALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAFG
RRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTY
HGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPT
VTLLPAADMDDFSRQLQNSMSGASADSTQA

FIGURE 25

(A)

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQ
GLPNNTASWFTALTQHGKEELRFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKM
KELSPRWYFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVL
QLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGET
ALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAFG
RRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEAAPSGTWLTY
HGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPT
VTLLPAADMDDFSRQLQNSMSGASADSTQA

(B)

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQ
GLPNNTASWFTALTQHGKEELRFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKM
KELSPRWYFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVL
QLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGET
ALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAFG
RRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEAAPSGTWLTY
HGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPT
VTLLPAADMDDFSRQLQNSMSGASADSTQA

FIGURE 26

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQ
GLPNNTASWFTALTQHGKEELRFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKM
KELSPRWYFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVL
QLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGET
ALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAFG
RRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTY
HGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPT
VTLLPAADMDDFSRQLQNSMSGASADSTQA

FIGURE 27

MFIFLLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPD

EIFRSDTLYLTQDLFLPFYSNVTGFHTINHTFGNPVIPFKDGIYFAATEKSNVVRGWV FGSTMNNKSQSVIIINNSTNVVIRACNFELCDNPFFAVSKPMGTQTHTMIFDNAFNCT FEYISDAFSLDVSEKSGNFKHLREFVFKNKDGFLYVYKGYQPIDVVRDLPSGFNTLKP IFKLPLGINITNFRAILTAFSPAQDIWGTSAAAYFVGYLKPTTFMLKYDENGTITDAV DCSQNPLAELKCSVKSFEIDKGIYQTSNFRVVPSGDVVRFPNITNLCPFGEVFNATKF PSVYAWERKKISNCVADYSVLYNSTFFSTFKCYGVSATKLNDLCFSNVYADSFVVKGD DVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYNYKYRYLRHGKLRP FERDISNVPFSPDGKPCTPPALNCYWPLNDYGFYTTTGIGYQPYRVVVLSFELLNAPA TVCGPKLSTDLIKNQCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFTDSVRDPK TSEILDISPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST GNNVFQTQAGCLIGAEHVDTSYECDIPIGAGICASYHTVSLLRSTSQKSIVAYTMSLG ADSSIAYSNNTIAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDSTECANLLLQYGS FCTQLNRALSGIAAEQDRNTREVFAQVKQMYKTPTLKYFGGFNFSQILPDPLKPTKRS FIEDLLFNKVTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDDMIAAYT AALVSGTATAGWTFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAIS QIQESLTTTSTALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDKVEAE VQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYH LMSFPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGVFVFNGTSWFITQ RNFFSPQIITTDNTFVSGNCDVVIGIINNTVYDPLQPELDSFKEELDKYFKNHTSPDV DLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFIA GLIAIVMVTILLCCMTSCCSCLKGACSCGSCCKFDEDDSEPVLKGVKLHYT

FIGURE 28

MFIFLLFLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPD

EIFRSDTLYLTQDLFLPFYSNVTGFHTINHTFGNPVIPFKDGIYFAATEKSNVVRGWV FGSTMNNKSQSVIIINNSTNVVIRACNFELCDNPFFAVSKPMGTQTHTMIFDNAFNCT FEYISDAFSLDVSEKSGNFKHLREFVFKNKDGFLYVYKGYQPIDVVRDLPSGFNTLKP IFKLPLGINITNFRAILTAFSPAQDIWGTSAAAYFVGYLKPTTFMLKYDENGTITDAV DCSQNPLAELKCSVKSFEIDKGIYQTSNFRVVPSGDVVRFPNITNLCPFGEVFNATKF PSVYAWERKKISNCVADYSVLYNSTFFSTFKCYGVSATKLNDLCFSNVYADSFVVKGD DVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYNYKYRYLRHGKLRP FERDISNVPFSPDGKPCTPPALNCYWPLNDYGFYTTTGIGYQPYRVVVLSFELLNAPA TVCGPKLSTDLIKNQCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFTDSVRDPK TSEILDISPCAFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST GNNVFQTQAGCLIGAEHVDTSYECDIPIGAGICASYHTVSLLRSTSQKSIVAYTMSLG ADSSIAYSNNTIAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDSTECANLLLQYGS FCTQLNRALSGIAAEQDRNTREVFAQVKQMYKTPTLKYFGGFNFSQILPDPLKPTKRS FIEDLLFNKVTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDDMIAAYT AALVSGTATAGWTFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAIS QIQESLTTTSTALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDKVEAE VQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYH LMSFPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGVFVFNGTSWFITQ RNFFSPQIITTDNTFVSGNCDVVIGIINNTVYDPLQPELDSFKEELDKYFKNHTSPDV DLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFIA GLIAIVMVTILLCCMTSCCSCLKGACSCGSCCKFDEDDSEPVLKGVKLHYT

FIGURE 29

MFIFLLFLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPD EIFRSDTLYLTQDLFLPFYSNVTGFHTINHTFGNPVIPFKDGIYFAATEKSNVVRGWV FGSTMNNKSQSVIIISNSTNVVIRACNFELCDNPFFAVSKPMGTQTHTMIFDNAFNCT FEYISDAFSLDVSEKSGNFKHLREFVFKNKDGSLYVYKGYQPIDVVRDLPSGFNTLKP IFKLPLGINITNFRAILTAFSPAQDIWGTSAAAYFVGYLKPTTFMLKYDENGTITDAV DCSQNPLAELKCSVKSFEIDKGIYQTSNFRVVPSGDVVRFPNITNLCPFGEVFNATKF PSVYAWERKKISNCVADYSVLYNSTFFSTFKCYGVSATKLNDLCFSNVYADSFVVKGD DVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTGNIDATSTGNYDYKYRYLRHGKLRP FERDISNVPFSPDGKPCTPPALNCYWPLNDYGFYTTTGIGYQPYRVVVLSFELLNAPA TVCGPKLSTDLIKNQCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFTDSVRDPK TSEILDISPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST GNNVFQTQAGCLIGAEHVDTSYECDIPIGAGICASYHTVSLLRSTSQKSIVAYTMSLG ADSSIAYSNNTIAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDSTECANLLLQYGS FCTQLNRALSGIAAEQDRNTREVFAQVKQMYKTPTLKYFGGFNFSQILPDPLKPTKRS FIEDLPFNKVTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDDMIAAYT AALVSGTATAGWTFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAIS QIQESLTTTSTALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDKVEAE VQIDRLITGRLQSLQTYVTQQLIRAAGIRASANLAATKMSECVLGQSKRVDFCGKGYH LMSFPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGVFVFNGTSWFITQ RNFFSPQIITTDNTFVSGNCDVVIGIINNTVYDPLQPELDSFKEELDKYFKNHTSPDV DLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFIA

GLIAIVMVTILLCCMTSCCSCLKGACSCGSCCKFDEDDSEPVLKGVKLHYT

FIGURE 30

(A)

MADNGTITVEELKQLLEQWNLVIGFLFLAWIMLLQFAYSNRNRF

LYIIKLVFLWLLWPVTLACFVLAAVYRINWVTGGIAIAMACIVGLMWLSYFVASFRLF

ARTRSMWSFNPETNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHPLGRCDI

KDLPKEITVATSRTLSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIAL

LVQ

(B)

MADNGTITVEELKQLLEQWNLVIGFLFLAWIMLLQFAYSNRNRF

LYIIKLVFLWLLWPVTLACFVLAAVYRINWVTGGIAIAMACIVGLMWLSYFVASFRLF

ARTRSMWSFNPETNILLNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDI

KDLPKEITVATSRTLSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIAL

LVQ

- (C)
 MADNGTITVEELKQLLEQWNLVIGFLFLAWIMLLQFAYSNRNRF

 LYIIKLVFLWLLWPVTLAĆFVLAAVYRINWVTGGIAIAMACIVGLMWLSYFVASFRLF

 ARTRSMWSFNPETNILPNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDI

 KDLPKEITVATSRTLSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIAL

 LVQ
- (D)
 MADNGTITVEELKQLLEQWNLVIGFLFLAWIMLLQFAYSNRNRF

 LYIIKLVFLWLLWPVTLACFVLAAVYRINWVTGGIAIAMACIVGLMWLSYFVASFRLF

 ARTRSMWSFNPETNILPNVPLRGTIVTRPLMESELVIGAVIIRGHLRMAGHSLGRCDI

 KDLPKEITVATSRTLSYYKLGASQRVGTDSGFAAYNRYRIGNYKLNTDHAGSNDNIAL

 LVQ

FIGURE 31

- (A)
 MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCC
 NIVNVSLVKPTVYVYSRVKNLNSSEGVPDLLV
- (B)
 MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCC
 NIVNVSLVKPTVYVYSRVKNLNSSEGVPDLLV
- (C)
 MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCC
 NIVNVSLVKPTVYVYSRVKNLNSPEGVPDLLV
- (D)
 MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCC
 NIVNVSLVKPTVYVYSRVKNLNSPEGVPDLLV
- (E)
 MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCC
 NIVNVSLVKPTVYVYSRVKNLNSSEGVPDLLV

FIGURE 32(A)

MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARE HLKNGTCGLVELEKGVLPQLEQPYVF1KRSDALSTNHGHKVVELVAEMDG1QYGRSG1 TLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSYGIDLKSYDLGDELGTDPIEDYEQN WNTKHGSGALRELTRELNGGAVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQ LDYIESKRGVYCCRDHEHEIAWFTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFP LNSKVKVIQPRVEKKKTEGFMGRIRSVYPVASPQECNNMHLSTLMKCNHCDEVSWQTC DFLKATCEHCGTENLVIEGPTTCGYLPTNAVVKMPCPACQDPEIGPEHSVADYHNHSN IETRLRKGGRTRCFGGCVFAYVGCYNKRAYWVPRASADIGSGHTGITGDNVETLNEDL LEILSRERVNINIVGDFHLNEEVAIILASFSASTSAFIDTIKSLDYKSFKTIVESCGN YKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQAAGVIRSIFARTLDAANHSIPDLQRAA VTILDGISEQSLRLVDAMVYTSDLLTNSVIIMAYVTGGLVQQTSQWLSNLLGTTVEKL RPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFDIVKGQIQVASDNIKDCVKCFIDVV NKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQCIRGKEQLQLLMPLKAPKEVT FLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVGTPVCVNGLMLLEIKDKEQ YCALSPGLLATNNVFRLKGGAPIKGVTFGEDTVWEVQGYKNVRITFELDERVDKVLNE KCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDEWSVATFYLFDDAGE ENFSSRMYCSFYPPDEEEEDDAECEEEEIDETCEHEYGTEDDYQGLPLEFGASAETVR VEEEEEEDWLDDTTEQSEIEPEPEPTPEEPVNQFTGYLKLTDNVAIKCVDIVKEAQSA NPMVIVNAANIHLKHGGGVAGALNKATNGAMQKESDDYIKLNGPLTVGGSCLLSGHNL AKKCLHVVGPNLNAGEDIQLLKAAYENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQT VRTQVYIAVNDKALYEQVVMDYLDNLKPRVEAPKQEEPPNTEDSKTEEKSVVQKPVDV KPKIKACIDEVTTTLEETKFLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYM VGDVITSGDITCVVIPSKKAGGTTEMLSRALKKVPVDEYITTYPGQGCAGYTLEEAKT ALKKCKSAFYVLPSEAPNAKEEILGTVSWNLREMLAHAEETRKLMPICMDVRAIMATI QRKYKGIKIQEGIVDYGVRFFFYTSKEPVASIITKLNSLNEPLVTMPIGYVTHGFNLE

EAARCMRSLKAPAVVSVSSPDAVTTYNGYLTSSSKTSEEHFVETVSLAGSYRDWSYSG

FIGURE 32(B)

QRTELGVEFLKRGDKIVYHTLESPVEFHLDGEVLSLDKLKSLLSLREVKTIKVFTTVD NTNLHTQLVDMSMTYGQQFGPTYLDGADVTKIKPHVNHEGKTFFVLPSDDTLRSEAFE YYHTLDESFLGRYMSALNHTKKWKFPQVGGLTSIKWADNNCYLSSVLLALQQLEVKFN APALQEAYYRARAGDAANFCALILAYSNKTVGELGDVRETMTHLLQHANLESAKRVLN VVCKHCGQKTTTLTGVEAVMYMGTLSYDNLKTGVSIPCVCGRDATQYLVQQESSFVMM SAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLYRIDGAHLTKMSEYKGPVTD VFYKETSYTTIKPVSYKLDGVTYTEIEPKLDGYYKKDNAYYTEQPIDLVPTQPLPNA SFDNFKLTCSNTKFADDLNQMTGFTKPASRELSVTFFPDLNGDVVAIDYRHYSASFKK GAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTSNSFEVLAVEDTQGMDNL ACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGVKVTQELGHEDLMA AYVENTSITIKKPNELSLALGLKTIATHGIAAINSVPWSKILAYVKPFLGQAAITTSN CAKRLAQRVFNNYMPYVFTLLFQLCTFTKSTNSRIRASLPTTIAKNSVKSVAKLCLDA GINYVKSPKFSKLFTIAMWLLLLSICLGSLICVTAAFGVLLSNFGAPSYCNGVRELYL NSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLTILGLAAEWVL AYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIFF ASFYYIWKSYVHIMDGCTSSTCMMCYKRNRATRVECTTIVNGMKRSFYVYANGGRGFC KTHNWNCLNCDTFCTGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVAVKNGALHL YFDKAGQKTYERHPLSHFVNLDNLRANNTKGSLPINVIVFDGKSKCDESASKSASVYY SQLMCQPILLLDQVLVSDVGDSTEVSVKMFDAYVDTFSATFSVPMEKLKALVATAHSE LAKGVALDGVLSTFVSAARQGVVDTDVDTKDVIECLKLSHHSDLEVTGDSCNNFMLTY NKVENMTPRDLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKK NNIPFRLTCATTRQVVNVITTKISLKGGKIVSTCFKLMLKATLLCVLAALVCYIVMPV HTLSIHDGYTNEIIGYKAIQDGVTRDIISTDDCFANKHAGFDAWFSQRGGSYKNDKSC PVVAAIITREIGFIVPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSDFA TSACVLAAECTIFKDAMGKPVPYCYDTNLLEGSISYSELRPDTRYVLMDGSIIQFPNT YLEGSVRVVTTFDAEYCRHGTCERSEVGICLSTSGRWVLNNEHYRALSGVFCGVDAMN

FIGURE 32(C)

LIANIFTPLVQPVGALDVSASVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANAL LFLMSFTILCLVPAYSFLPGVYSVFYLYLTFYFTNDVSFLAHLQWFAMFSPIVPFWIT AIYVFCISLKHCHWFFNNYLRKRVMFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLL PLTQYNRYLALYNKYKYFSGALDTTSYREAACCHLAKALNDFSNSGADVLYQPPQTSI TSAVLQSGFRKMAFPSGKVEGCMVQVTCGTTTLNGLWLDDTVYCPRHVICTAEDMLNP NYEDLLIRKSNHSFLVQAGNVQLRVIGHSMQNCLLRLKVDTSNPKTPKYKFVRIQPGQ TFSVLACYNGSPSGVYQCAMRPNHTIKGSFLNGSCGSVGFNIDYDCVSFCYMHHMELP TGVHAGTDLEGKFYGPFVDRQTAQAAGTDTTITLNVLAWLYAAVINGDRWFLNRFTTT LNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVLDMCAALKELLQNGMNGRTILGS TILEDEFTPFDVVRQCSGVTFQGKFKKIVKGTHHWMLLTFLTSLLILVQSTQWSLFFF VYENAFLPFTLGIMAIAACAMLLVKHKHAFLCLFLLPSLATVAYFNMVYMPASWVMRI MTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAARRVWTLMNVITLVYKV YYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIVFVCVEYYPLLFITGNTLQCI MLVYCFLGYCCCCYFGLFCLLNRYFRLTLGVYDYLVSTQEFRYMNSQGLLPPKSSIDA FKLNIKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQLRVESSSKLWAQCVQLH NDILLAKDTTEAFEKMVSLLSVLLSMQGAVDINRLCEEMLDNRATLQAIASEFSSLPS YAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAMQRKLEKMADQAMTQ MYKQARSEDKRAKVTSAMQTMLFTMLRKLDNDALNNIINNARDGCVPLNIIPLTTAAK LMVVVPDYGTYKNTCDGNTFTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWPLI VTALRANSAVKLQNNELSPVALRQMSCAAGTTQTACTDDNALAYYNNSKGGRFVLALL SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPKVKYLYFIKGLNNLNRGMVL GSLAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTH TGTGQAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKYVQIPTTCAND PVGFTLRNTVCTVCGMWKGYGCSCDQLREPLMQSADASTFLNGFAV

FIGURE 33 (A)

MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARE

HLKNGTCGLVELEKGVLPQLEQPYVFIKRSDALSTNHGHKVVELVAEMDGIQYGRSGI TLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSYGIDLKSYDLGDELGTDPIEDYEQN WNTKHGSGALRELTRELNGGAVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQ LDYIESKRGVYCCRDHEHEIAWFTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFP LNSKVKVIQPRVEKKKTEGFMGRIRSVYPVASPQECNNMHLSTLMKCNHCDEVSWQTC DFLKATCEHCGTENLVIEGPTTCGYLPTNAVVKMPCPACQDPEIGPEHSVADYHNHSN I ETRLRKGGRTRCFGGCVFAYVGCYNKRAYWVPRASADIGSGHTGITGDNVETLNEDL LEILSRERVNINIVGDFHLNEEVAIILASFSASTSAFIDTIKSLDYKSFKTIVESCGN YKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQAAGVIRSIFARTLDAANHSIPDLQRAA VTILDGISEQSLRLVDAMVYTSDLLTNSVIIMAYVTGGLVQQTSQWLSNLLGTTVEKL RPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFDIVKGQIQVASDNIKDCVKCFIDVV NKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQCIRGKEQLQLLMPLKAPKEVT FLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVGTPVCVNGLMLLEIKDKEQ YCALSPGLLATNNVFRLKGGAPIKGVTFGEDTVWEVQGYKNVRITFELDERVDKVLNE KCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDEWSVATFYLFDDAGE ENFSSRMYCSFYPPDEEEEDDAECEEEEIDETCEHEYGTEDDYQGLPLEFGASAETVR VEEEEEEDWLDDTTEQSEIEPEPEPTPEEPVNQFTGYLKLTDNVAIKCVDIVKEAQSA NPMVIVNAANIHLKHGGGVAGALNKATNGAMQKESDDYIKLNGPLTVGGSCLLSGHNL AKKCLHVVGPNLNAGEDIQLLKAAYENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQT VRTQVYIAVNDKALYEQVVMDYLDNLKPRVEAPKQEEPPNTEDSKTEEKSVVQKPVDV KPKIKACIDEVTTTLEETKFLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYM VGDVITSGDITCVVIPSKKAGGTTEMLSRALKKVPVDEYITTYPGQGCAGYTLEEAKT ALKKCKSAFYVLPSEAPNAKEEILGTVSWNLREMLAHAEETRKLMPICMDVRAIMATI QRKYKGIKIQEGIVDYGVRFFFYTSKEPVASIITKLNSLNEPLVTMPIGYVTHGFNLE EAARCMRSLKAPAVVSVSSPDAVTTYNGYLTSSSKTSEEHFVETVSLAGSYRDWSYSG

FIGURE 33 (B)

QRTELGVEFLKRGDKIVYHTLESPVEFHLDGEVLSLDKLKSLLSLREVKTIKVFTTVD NTNLHTQLVDMSMTYGQQFGPTYLDGADVTKIKPHVNHEGKTFFVLPSDDTLRSEAFE YYHTLDESFLGRYMSALNHTKKWKFPQVGGLTSIKWADNNCYLSSVLLALQQLEVKFN APALQEAYYRARAGDAANFCALILAYSNKTVGELGDVRETMTHLLQHANLESAKRVLN VVCKHCGQKTTTLTGVEAVMYMGTLSYDNLKTGVSIPCVCGRDATQYLVQQESSFVMM SAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLYRIDGAHLTKMSEYKGPVTD VFYKETSYTTIKPVSYKLDGVTYTEIEPKLDGYYKKDNAYYTEQPIDLVPTQPLPNA SFDNFKLTCSNTKFADDLNQMTGFTKPASRELSVTFFPDLNGDVVAIDYRHYSASFKK GAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTSNSFEVLAVEDTQGMDNL ACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGVKVTQELGHEDLMA AYVENTSITIKKPNELSLALGLKTIATHGIAAINSVPWSKILAYVKPFLGQAAITTSN CAKRLAQRVFNNYMPYVFTLLFQLCTFTKSTNSRIRASLPTTIAKNSVKSVAKLCLDA GINYVKSPKFSKLFTIAMWLLLLSICLGSLICVTAAFGVLLSNFGAPSYCNGVRELYL NSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLTILGLAAEWVL AYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIFF ASFYYIWKSYVHIMDGCTSSTCMMCYKRNRATRVECTTIVNGMKRSFYVYANGGRGFC KTHNWNCLNCDTFCTGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVAVKNGALHL YFDKAGQKTYERHPLSHFVNLDNLRANNTKGSLPINVIVFDGKSKCDESASKSASVYY SQLMCQPILLLDQALVSDVGDSTEVSVKMFDAYVDTFSATFSVPMEKLKALVATAHSE LAKGVALDGVLSTFVSAARQGVVDTDVDTKDVIECLKLSHHSDLEVTGDSCNNFMLTY NKVENMTPRDLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKK NNIPFRLTCATTRQVVNVITTKISLKGGKIVSTCFKLMLKATLLCVLAALVCYIVMPV HTLSIHDGYTNEIIGYKAIQDGVTRDIISTDDCFANKHAGFDAWFSQRGGSYKNDKSC PVVAAIITREIGFIVPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSDFA TSACVLAAECTIFKDAMGKPVPYCYDTNLLEGSISYSELRPDTRYVLMDGSIIQFPNT YLEGSVRVVTTFDAEYCRHGTCERSEVGICLSTSGRWVLNNEHYRALSGVFCGVDAMN

FIGURE 33 (C)

LIANIFTPLVQPVGALDVSASVVAGGIIAILVTCAAYYFMKFRRVFGEYNHVVAANAL LFLMSFTILCLVPAYSFLPGVYSVFYLYLTFYFTNDVSFLAHLQWFAMFSPIVPFWIT AIYVFCISLKHCHWFFNNYLRKRVMFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLL PLTQYNRYLALYNKYKYFSGALDTTSYREAACCHLAKALNDFSNSGADVLYQPPQTSI TSAVLQSGFRKMAFPSGKVEGCMVQVTCGTTTLNGLWLDDTVYCPRHVICTAEDMLNP NYEDLLIRKSNHSFLVQAGNVQLRVIGHSMQNCLLRLKVDTSNPKTPKYKFVRIQPGQ TFSVLACYNGSPSGVYQCAMRPNHTIKGSFLNGSCGSVGFNIDYDCVSFCYMHHMELP TGVHAGTDLEGKFYGPFVDRQTAQAAGTDTTITLNVLAWLYAAVINGDRWFLNRFTTT LNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVLDMCAALKELLQNGMNGRTILGS TILEDEFTPFDVVRQCSGVTFQGKFKKIVKGTHHWMLLTFLTSLLILVQSTQWSLFFF VYENAFLPFTLGIMAIAACAMLLVKHKHAFLCLFLLPSLATVAYFNMVYMPASWVMRI MTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAARRVWTLMNVITLVYKV YYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIVFVCVEYYPLLFITGNTLQCI MLVYCFLGYCCCCYFGLFCLLNRYFRLTLGVYDYLVSTQEFRYMNSQGLLPPKSSIDA FKLNIKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQLRVESSSKLWAQCVQLH NDILLAKDTTEAFEKMVSLLSVLLSMQGAVDINRLCEEMLDNRATLQAIASEFSSLPS YAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAMQRKLEKMADQAMTQ MYKQARSEDKRAKVTSAMQTMLFTMLRKLDNDALNNIINNARDGCVPLNIIPLTTAAK LMVVVPDYGTYKNTCDGNTFTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWPLI VTALRANSAVKLQNNELSPVALRQMSCAAGTTQTACTDDNALAYYNNSKGGRFVLALL SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPKVKYLYFIKGLNNLNRGMVL GSLAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTH TGTGQAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKYVQIPTTCAND PVGFTLRNTVCTVCGMWKGYGCSCDQLREPLMQSADASTFFKRVCGVSAARLTPCGTG TSTDVVYRAFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLLDSYFVVKRHTMSNYQHE

FIGURE 33 (D)

ETIYNLVKDCPAVAVHDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDT LKEILVTYNCCDDDYFNKKDWYDFVENPDILRVYANLGERVRQSLLKTVQFCDAMRDA GIVGVLTLDNQDLNGNWYDFGDFVQVAPGCGVPIVDSYYSLLMPILTLTRALAAESHM DADLAKPLIKWDLLKYDFTEERLCLFDRYFKYWDQTYHPNCINCLDDRCILHCANFNV LFSTVFPPTSFGPLVRKIFVDGVPFVVSTGYHFRELGVVHNQDVNLHSSRLSFKELLV YAADPAMHAASGNLLLDKRTTCFSVAALTNNVAFQTVKPGNFNKDFYDFAVSKGFFKE GSSVELKHFFFAQDGNAAISDYDYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCIN ANQVIVNNLDKSAGFPFNKWGKARLYYDSMSYEDQDALFAYTKRNVIPTITQMNLKYA ISAKNRARTVAGVSICSTMTNRQFHQKLLKSIAATRGATVVIGTSKFYGGWHNMLKTV YSDVETPHLMGWDYPKCDRAMPNMLRIMASLVLARKHNTCCNLSHRFYRLANECAQVL SEMVMCGGSLYVKPGGTSSGDATTAYANSVFNICQAVTANVNALLSTDGNKIADKYVR NLQHRLYECLYRNRDVDHEFVDEFYAYLRKHFSMMILSDDAVVCYNSNYAAQGLVASI KNFKAVLYYQNNVFMSEAKCWTETDLTKGPHEFCSQHTMLVKQGDDYVYLPYPDPSRI LGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHPNQEYADVFHLYLQYIRKLHDEL TGHMLDMYSVMLTNDNTSRYWEPEFYEAMYTPHTVLQAVGACVLCNSQTSLRCGACIR RPFLCCKCCYDHVISTSHKLVLSVNPYVCNAPGCDVTDVTQLYLGGMSYYCKSHKPPI SFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYILANTCTERLKLFAAET LKATEETFKLSYGIATVREVLSDRELHLSWEVGKPRPPLNRNYVFTGYRVTKNSKVQI GEYTFEKGDYGDAVVYRGTTTYKLNVGDYFVLTSHTVMPLSAPTLVPQEHYVRITGLY PTLNISDEFSSNVANYQKVGMQKYSTLQGPPGTGKSHFAIGLALYYPSARIVYTACSH AAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVNALPETTAD IVVFDEISMATNYDLSVVNARLRAKHYVYIGDPAQLPAPRTLLTKGTLEPEYFNSVCR LMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKDKSAQCFKMFYKGVITHDVS SAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEYDY VIFTQTTETAHSCNVNRFNVAITRAKIGILCIMSDRDLYDKLQFTSLEIPRRNVATLQ

FIGURE 33 (E)

AENVTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMM GFKMNYQVNGYPNMFITREEAIRHVRAWIGFDVEGCHATRDAVGTNLPLQLGFSTGVN LVAVPTGYVDTENNTEFTRVNAKPPPGDQFKHLIPLMYKGLPWNVVRIKIVQMLSDTL KGLSDRVVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSVG FDYVYNPFMIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRV DWSVEYPIIGDELRVNSACRKVQHMVVKSALLADKFPVLHDIGNPKAIKCVPQAEVEW KFYDAQPCSDKAYKIEELFYSYATHHDKFTDGVCLFWNCNVDRYPANAIVCRFDTRVL SNLNLPGCDGGSLYVNKHAFHTPAFDKSAFTNLKQLPFFYYSDSPCESHGKQVVSDID YVPLKSATCITRCNLGGAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNT FTRLQSLENVAYNVVNKGHFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNV AFELWAKRNIKPVPEIKILNNLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKP TESACSSLTVLFDGRVEGQVDLFRNARNGVLITEGSVKGLTPSKGPAQASVNGVTLIG ESVKTQFNYFKKVDGIIQQLPETYFTQSRDLEDFKPRSQMETDFLELAMDEFIQRYKL EGYAFEHIVYGDFSHGQLGGLHLMIGLAKRSQDSPLKLEDFIPMDSTVKNYFITDAQT GSSKCVCSVIDLLLDDFVEIIKSQDLSVISKVVKVTIDYAEISFMLWCKDGHVETFYP KLQASQAWQPGVAMPNLYKMQRMLLEKCDLQNYGENAVIPKGIMMNVAKYTQLCQYLN TLTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQWLPTGTLLVDSDLNDFVSDADSTLIG DCATVHTANKWDLIISDMYDPRTKHVTKENDSKEGFFTYLCGFIKQKLALGGSIAVKI TEHSWNADLYKLMGHFSWWTAFVTNVNASSSEAFLIGANYLGKPKEQIDGYTMHANYI FWRNTNPIQLSSYSLFDMSKFPLKLRGTAVMSLKENQINDMIYSLLEKGRLIIRENNR VVVSSDILVNN

FIGURE 34 (A)

RVCGVSAARLTPCGTGTSTDVVYRAFDIYNEKVAGFAKFLKTNC

CRFQEKDEEGNLLDSYFVVKRHTMSNYQHEETIYNLVKDCPAVAVHDFFKFRVDGDMV PHISRQRLTKYTMADLVYALRHFDEGNCDTLKEILVTYNCCDDDYFNKKDWYDFVENP DILRVYANLGERVRQSLLKTVQFCDAMRDAGIVGVLTLDNQDLNGNWYDFGDFVQVAP GCGVPIVDSYYSLLMPILTLTRALAAESHMDADLAKPLIKWDLLKYDFTEERLCLFDR YFKYWDQTYHPNCINCLDDRCILHCANFNVLFSTVFPPTSFGPLVRKIFVDGVPFVVS TGYHFRELGVVHNQDVNLHSSRLSFKELLVYAADPAMHAASGNLLLDKRTTCFSVAAL TNNVAFQTVKPGNFNKDFYDFAVSKGFFKEGSSVELKHFFFAQDGNAAISDYDYYRYN LPTMCDIRQLLFVVEVVDKYFDCYDGGCINANQVIVNNLDKSAGFPFNKWGKARLYYD SMSYEDQDALFAYTKRNVIPTITQMNLKYAISAKNRARTVAGVSICSTMTNRQFHQKL LKSIAATRGATVVIGTSKFYGGWHNMLKTVYSDVETPHLMGWDYPKCDRAMPNMLRIM ASLVLARKHNTCCNLSHRFYRLANECAQVLSEMVMCGGSLYVKPGGTSSGDATTAYAN SVFNICQAVTANVNALLSTDGNKIADKYVRNLQHRLYECLYRNRDVDHEFVDEFYAYL RKHFSMMILSDDAVVCYNSNYAAQGLVASIKNFKAVLYYQNNVFMSEAKCWTETDLTK GPHEFCSQHTMLVKQGDDYVYLPYPDPSRILGAGCFVDDIVKTDGTLMIERFVSLAID AYPLTKHPNQEYADVFHLYLQYIRKLHDELTGHMLDMYSVMLTNDNTSRYWEPEFYEA MYTPHTVLQAVGACVLCNSQTSLRCGACIRRPFLCCKCCYDHVISTSHKLVLSVNPYV CNAPGCDVTDVTQLYLGGMSYYCKSHKPPISFPLCANGQVFGLYKNTCVGSDNVTDFN AIATCDWTNAGDYILANTCTERLKLFAAETLKATEETFKLSYGIATVREVLSDRELHL SWEVGKPRPPLNRNYVFTGYRVTKNSKVQIGEYTFEKGDYGDAVVYRGTTTYKLNVGD YFVLTSHTVMPLSAPTLVPQEHYVRITGLYPTLNISDEFSSNVANYQKVGMQKYSTLQ GPPGTGKSHFAIGLALYYPSARIVYTACSHAAVDALCEKALKYLPIDKCSRIIPARAR VECFDKFKVNSTLEQYVFCTVNALPETTADIVVFDEISMATNYDLSVVNARLRAKHYV YIGDPAQLPAPRTLLTKGTLEPEYFNSVCRLMKTIGPDMFLGTCRRCPAEIVDTVSAL VYDNKLKAHKDKSAQCFKMFYKGVITHDVSSAINRPQIGVVREFLTRNPAWRKAVFIS PYNSQNAVASKILGLPTQTVDSSQGSEYDYVIFTQTTETAHSCNVNRFNVAITRAKIG

FIGURE 34 (B)

ILCIMSDRDLYDKLQFTSLEIPRRNVATLQAENVTGLFKDCSKIITGLHPTQAPTHLS VDIKFKTEGLCVDIPGIPKDMTYRRLISMMGFKMNYQVNGYPNMFITREEAIRHVRAW IGFDVEGCHATRDAVGTNLPLQLGFSTGVNLVAVPTGYVDTENNTEFTRVNAKPPPGD QFKHLIPLMYKGLPWNVVRIKIVQMLSDTLKGLSDRVVFVLWAHGFELTSMKYFVKIG PERTCCLCDKRATCFSTSSDTYACWNHSVGFDYVYNPFMIDVQQWGFTGNLQSNHDQH CQVHGNAHVASCDAIMTRCLAVHECFVKRVDWSVEYPIIGDELRVNSACRKVQHMVVK SALLADKFPVLHDIGNPKAIKCVPQAEVEWKFYDAQPCSDKAYKIEELFYSYATHHDK FTDGVCLFWNCNVDRYPANAIVCRFDTRVLSNLNLPGCDGGSLYVNKHAFHTPAFDKS AFTNLKQLPFFYYSDSPCESHGKQVVSDIDYVPLKSATCITRCNLGGAVCRHHANEYR QYLDAYNMMISAGFSLWIYKQFDTYNLWNTFTRLQSLENVAYNVVNKGHFDGHAGEAP VSIINNAVYTKVDGIDVEIFENKTTLPVNVAFELWAKRNIKPVPEIKILNNLGVDIAA NTVIWDYKREAPAHVSTIGVCTMTDIAKKPTESACSSLTVLFDGRVEGQVDLFRNARN GVLITEGSVKGLTPSKGPAQASVNGVTLIGESVKTQFNYFKKVDGIIQQLPETYFTQS RDLEDFKPRSQMETDFLELAMDEFIQRYKLEGYAFEHIVYGDFSHGQLGGLHLMIGLA KRSQDSPLKLEDFIPMDSTVKNYFITDAQTGSSKCVCSVIDLLLDDFVEIIKSQDLSV ISKVVKVTIDYAEISFMLWCKDGHVETFYPKLQASQAWQPGVAMPNLYKMQRMLLEKC DLQNYGENAVIPKGIMMNVAKYTQLCQYLNTLTLAVPYNMRVIHFGAGSDKGVAPGTA VLRQWLPTGTLLVDSDLNDFVSDADSTLIGDCATVHTANKWDLIISDMYDPRTKHVTK ENDSKEGFFTYLCGFIKQKLALGGSIAVKITEHSWNADLYKLMGHFSWWTAFVTNVNA SSSEAFLIGANYLGKPKEQIDGYTMHANYIFWRNTNPIQLSSYSLFDMSKFPLKLRGT AVMSLKENQINDMIYSLLEKGRLIIRENNRVVVSSDILVNN

FIGURE 35 (A)

MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARE

HLKNGTCGLVELEKGVLPQLEQPYVFIKRSDALSTNHGHKVVELVAEMDGIQYGRSGI TLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSYGIDLKSYDLGDELGTDPIEDYEQN WNTKHGSGALRELTRELNGGAVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQ LDYIESKRGVYCCRDHEHEIAWFTERSDKSYEHQTPFEIKSAKKFDTFKGECPKFVFP LNSKVKVIQPRVEKKKTEGFMGRIRSVYPVASPQECNNMHLSTLMKCNHCDEVSWQTC DFLKATCEHCGTENLVIEGPTTCGYLPTNAVVKMPCPACQDPEIGPEHSVADYHNHSN IETRLRKGGRTRCFGGCVFAYVGCYNKRAYWVPRASADIGSGHTGITGDNVETLNEDL LEILSRERVNINIVGDFHLNEEVAIILASFSASTSAFIDTIKSLDYKSFKTIVESCGN YKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQAAGVIRSIFARTLDAANHSIPDLQRAA VTILDGISEQSLRLVDAMVYTSDLLTNSVIIMAYVTGGLVQQTSQWLSNLLGTTVEKL RPIFEWIEAKLSAGVEFLKDAWEILKFLITGVFDIVKGQIQVASDNIKDCVKCFIDVV NKALEMCIDQVTIAGAKLRSLNLGEVFIAQSKGLYRQCIRGKEQLQLLMPLKAPKEVT FLEGDSHDTVLTSEEVVLKNGELEALETPVDSFTNGAIVGTPVCVNGLMLLEIKDKEQ YCALSPGLLATNNVFRLKGGAPIKGVTFGEDTVWEVQGYKNVRITFELDERVDKVLNE KCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTNMGIDLDEWSVATFYLFDDAGE ENFSSRMYCSFYPPDEEEEDDAECEEEEIDETCEHEYGTEDDYQGLPLEFGASAETVR VEEEEEEDWLDDTTEQSEIEPEPEPTPEEPVNQFTGYLKLTDNVAIKCVDIVKEAQSA NPMVIVNAANIHLKHGGGVAGALNKATNGAMQKESDDYIKLNGPLTVGGSCLLSGHNL AKKCLHVVGPNLNAGEDIQLLKAAYENFNSQDILLAPLLSAGIFGAKPLQSLQVCVQT VRTQVYIAVNDKALYEQVVMDYLDNLKPRVEAPKQEEPPNTEDSKTEEKSVVQKPVDV KPKIKACIDEVTTTLEETKFLTNKLLLFADINGKLYHDSQNMLRGEDMSFLEKDAPYM VGDVITSGDITCVVIPSKKAGGTTEMLSRALKKVPVDEYITTYPGQGCAGYTLEEAKT ALKKCKSAFYVLPSEAPNAKEEILGTVSWNLREMLAHAEETRKLMPICMDVRAIMATI QRKYKGIKIQEGIVDYGVRFFFYTSKEPVASIITKLNSLNEPLVTMPIGYVTHGFNLE EAARCMRSLKAPAVVSVSSPDAVTTYNGYLTSSSKTSEEHFVETVSLAGSYRDWSYSG

FIGURE 35 (B)

QRTELGVEFLKRGDKIVYHTLESPVEFHLDGEVLSLDKLKSLLSLREVKTIKVFTTVD NTNLHTQLVDMSMTYGQQFGPTYLDGADVTKIKPHVNHEGKTFFVLPSDDTLRSEAFE YYHTLDESFLGRYMSALNHTKKWKFPQVGGLTSIKWADNNCYLSSVLLALQQLEVKFN APALQEAYYRARAGDAANFCALILAYSNKTVGELGDVRETMTHLLQHANLESAKRVLN VVCKHCGQKTTTLTGVEAVMYMGTLSYDNLKTGVSIPCVCGRDATQYLVQQESSFVMM SAPPAEYKLQQGTFLCANEYTGNYQCGHYTHITAKETLYRIDGAHLTKMSEYKGPVTD VFYKETSYTTIKPVSYKLDGVTYTEIEPKLDGYYKKDNAYYTEQPIDLVPTQPLPNA SFDNFKLTCSNTKFADDLNQMTGFTKPASRELSVTFFPDLNGDVVAIDYRHYSASFKK GAKLLHKPIVWHINQATTKTTFKPNTWCLRCLWSTKPVDTSNSFEVLAVEDTQGMDNL ACESQQPTSEEVVENPTIQKEVIECDVKTTEVVGNVILKPSDEGVKVTQELGHEDLMA AYVENTSITIKKPNELSLALGLKTIATHGIAAINSVPWSKILAYVKPFLGQAAITTSN CAKRLAQRVFNNYMPYVFTLLFQLCTFTKSTNSRIRASLPTTIAKNSVKSVAKLCLDA GINYVKSPKFSKLFTIAMWLLLLSICLGSLICVTAAFGVLLSNFGAPSYCNGVRELYL NSSNVTTMDFCEGSFPCSICLSGLDSLDSYPALETIQVTISSYKLDLTILGLAAEWVL AYMLFTKFFYLLGLSAIMQVFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIFF ASFYYIWKSYVHIMDGCTSSTCMMCYKRNRATRVECTTIVNGMKRSFYVYANGGRGFC KTHNWNCLNCDTFCTGSTFISDEVARDLSLQFKRPINPTDQSSYIVDSVAVKNGALHL YFDKAGQKTYERHPLSHFVNLDNLRANNTKGSLPINVIVFDGKSKCDESASKSASVYY SQLMCQPILLLDQALVSDVGDSTEVSVKMFDAYVDTFSATFSVPMEKLKALVATAHSE LAKGVALDGVLSTFVSAARQGVVDTDVDTKDVIECLKLSHHSDLEVTGDSCNNFMLTY NKVENMTPRDLGACIDCNARHINAQVAKSHNVSLIWNVKDYMSLSEQLRKQIRSAAKK NNIPFRLTCATTRQVVNVITTKISLKGGKIVSTCFKLMLKATLLCVLAALVCYIVMPV HTLSIHDGYTNEIIGYKAIQDGVTRDIISTDDCFANKHAGFDAWFSQRGGSYKNDKSC PVVAAIITREIGFIVPGLPGTVLRAINGDFLHFLPRVFSAVGNICYTPSKLIEYSDFA TSACVLAAECTIFKDAMGKPVPYCYDTNLLEGSISYSELRPDTRYVLMDGSIIQFPNT YLEGSVRVVTTFDAEYCRHGTCERSEVGICLSTSGRWVLNNEHYRALSGVFCGVDAMN

FIGURE 35 (C)

LIANIFTPLVQPVGALDVSASVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANAL LFLMSFTILCLAPAYSFLPGVYSVFYLYLTFYFTNDVSFLAHLQWFAMFSPIVPFWIT AIYVFCISLKHCHWFFNNYLRKRVMFNGVTFSTFEEAALCTFLLNKEMYLKLRSETLL PLTQYNRYLALYNKYKYFSGALDTTSYREAACCHLAKALNDFSNSGADVLYQPPQTSI TSAVLQSGFRKMAFPSGKVEGCMVQVTCGTTTLNGLWLDDTVYCPRHVICTAEDMLNP NYEDLLIRKSNHSFLVQAGNVQLRVIGHSMQNCLLRLKVDTSNPKTPKYKFVRIQPGQ TFSVLACYNGSPSGVYQCAMRPNHTIKGSFLNGSCGSVGFNIDYDCVSFCYMHHMELP TGVHAGTDLEGKFYGPFVDRQTAQAAGTDTTITLNVLAWLYAAVINGDRWFLNRFTTT LNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVLDMCAALKELLQNGMNGRTILGS TILEDEFTPFDVVRQCSGVTFQGKFKKIVKGTHHWMLLTFLTSLLILVQSTQWSLFFF VYENAFLPFTLGIMAIAACAMLLVKHKHAFLCLFLLPSLATVAYFNMVYMPASWVMRI MTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAARRVWTLMNVITLVYKV YYGNALDQAISMWALVISVTSNYSGVVTTIMFLARAIVFVCVEYYPLLFITGNTLQCI MLVYCFLGYCCCCYFGLFCLLNRYFRLTLGVYDYLVSTQEFRYMNSQGLLPPKSSIDA FKLNIKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQLRVESSSKLWAQCVQLH NDILLAKDTTEAFEKMVSLLSVLLSMQGAVDINRLCEEMLDNRATLQAIASEFSSLPS YAAYATAQEAYEQAVANGDSEVVLKKLKKSLNVAKSEFDRDAAMQRKLEKMADQAMTQ MYKQARSEDKRAKVTSAMQTMLFTMLRKLDNDALNNIINNARDGCVPLNIIPLTTAAK LMVVVPDYGTYKNTCDGNTFTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWPLI VTALRANSAVKLQNNELSPVALRQMSCAAGTTQTACTDDNALAYYNNSKGGRFVLALL SDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPKVKYLYFIKGLNNLNRGMVL GSLAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTH TGTGQAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKYVQIPTTCAND PVGFTLRNTVCTVCGMWKGYGCSCDQLREPLMQSADASTFLNRVCGVSAARLTPCGTG TSTDVVYRAFDIYNEKVAGFAKFLKTNCCRFQEKDEEGNLLDSYFVVKRHTMSNYQHE ETIYNLVKDCPAVAVHDFFKFRVDGDMVPHISRQRLTKYTMADLVYALRHFDEGNCDT

FIGURE 35 (D)

LKEILVTYNCCDDDYFNKKDWYDFVENPDILRVYANLGERVRQSLLKTVQFCDAMRDA GIVGVLTLDNQDLNGNWYDFGDFVQVAPGCGVPIVDSYYSLLMPILTLTRALAAESHM DADLAKPLIKWDLLKYDFTEERLCLFDRYFKYWDQTYHPNCINCLDDRCILHCANFNV LFSTVFPPTSFGPLVRKIFVDGVPFVVSTGYHFRELGVVHNQDVNLHSSRLSFKELLV YAADPAMHAASGNLLLDKRTTCFSVAALTNNVAFQTVKPGNFNKDFYDFAVSKGFFKE GSSVELKHFFFAQDGNAAISDYDYYRYNLPTMCDIRQLLFVVEVVDKYFDCYDGGCIN ANQVIVNNLDKSAGFPFNKWGKARLYYDSMSYEDQDALFAYTKRNVIPTITQMNLKYA ISAKNRARTVAGVSICSTMTNRQFHQKLLKSIAATRGATVVIGTSKFYGGWHNMLKTV YSDVETPHLMGWDYPKCDRAMPNMLRIMASLVLARKHNTCCNLSHRFYRLANECAQVL SEMVMCGGSLYVKPGGTSSGDATTAYANSVFNICQAVTANVNALLSTDGNKIADKYVR NLQHRLYECLYRNRDVDHEFVDEFYAYLRKHFSMMILSDDAVVCYNSNYAAQGLVASI KNFKAVLYYQNNVFMSEAKCWTETDLTKGPHEFCSQHTMLVKQGDDYVYLPYPDPSRI LGAGCFVDDIVKTDGTLMIERFVSLAIDAYPLTKHPNQEYADVFHLYLQYIRKLHDEL TGHMLDMYSVMLTNDNTSRYWEPEFYEAMYTPHTVLQAVGACVLCNSQTSLRCGACIR RPFLCCKCCYDHVISTSHKLVLSVNPYVCNAPGCDVTDVTQLYLGGMSYYCKSHKPPI SFPLCANGQVFGLYKNTCVGSDNVTDFNAIATCDWTNAGDYILANTCTERLKLFAAET LKATEETFKLSYGIATVREVLSDRELHLSWEVGKPRPPLNRNYVFTGYRVTKNSKVQI GEYTFEKGDYGDAVVYRGTTTYKLNVGDYFVLTSHTVMPLSAPTLVPQEHYVRITGLY PTLNISDEFSSNVANYQKVGMQKYSTLQGPPGTGKSHFAIGLALYYPSARIVYTACSH AAVDALCEKALKYLPIDKCSRIIPARARVECFDKFKVNSTLEQYVFCTVNALPETTAD IVVFDEISMATNYDLSVVNARLRAKHYVYIGDPAQLPAPRTLLTKGTLEPEYFNSVCR LMKTIGPDMFLGTCRRCPAEIVDTVSALVYDNKLKAHKEKSAQCFKMFYKGVITHDVS SAINRPQIGVVREFLTRNPAWRKAVFISPYNSQNAVASKILGLPTQTVDSSQGSEYDY VIFTQTTETAHSCNVNRFNVAITRAKIGILCIMSDRDLYDKLQFTSLEIPRRNVATLQ AENVTGLFKDCSKIITGLHPTQAPTHLSVDIKFKTEGLCVDIPGIPKDMTYRRLISMM GFKMNYQVNGYPNMFITREEAIRHVRAWIGFDVEGCHATRDAVGTNLPLQLGFSTGVN

FIGURE 35 (E)

LVAVPTGYVDTENNTEFTRVNAKPPPGDQFKHLIPLMYKGLPWNVVRIKIVQMLSDTL KGLSDRVVFVLWAHGFELTSMKYFVKIGPERTCCLCDKRATCFSTSSDTYACWNHSVG FDYVYNPFMIDVQQWGFTGNLQSNHDQHCQVHGNAHVASCDAIMTRCLAVHECFVKRV DWSVEYPIIGDELRVNSACRKVQHMVVKSALLADKFPVLHDIGNPKAIKCVPQAEVEW KFYDAQPCSDKAYKIEELFYSYATHHDKFTDGVCLFWNCNVDRYPANAIVCRFDTRVL SNLNLPGCDGGSLYVNKHAFHTPAFDKSAFTNLKQLPFFYYSDSPCESHGKQVVSDID YVPLKSATCITRCNLGGAVCRHHANEYRQYLDAYNMMISAGFSLWIYKQFDTYNLWNT FTRLQSLENVAYNVVNKGHFDGHAGEAPVSIINNAVYTKVDGIDVEIFENKTTLPVNV AFELWAKRNIKPVPEIKILNNLGVDIAANTVIWDYKREAPAHVSTIGVCTMTDIAKKP TESACSSLTVLFDGRVEGQVDLFRNARNGVLITEGSVKGLTPSKGPAQASVNGVTLIG ESVKTQFNYFKKVDGIIQQLPETYFTQSRDLEDFKPRSQMETDFLELAMDEFIQRYKL EGYAFEHIVYGDFSHGQLGGLHLMIGLAKRSQDSPLKLEDFIPMDSTVKNYFITDAQT GSSKCVCSVIDLLLDDFVEIIKSQDLSVISKVVKVTIDYAEISFMLWCKDGHVETFYP KLQASQAWQPGVAMPNLYKMQRMLLEKCDLQNYGENAVIPKGIMMNVAKYTQLCQYLN TLTLAVPYNMRVIHFGAGSDKGVAPGTAVLRQWLPTGTLLVDSDLNDFVSDADSTLIG DCATVHTANKWDLIISDMYDPRTKHVTKENDSKEGFFTYLCGFIKQKLALGGSIAVKI TEHSWNADLYKLMGHFSWWTAFVTNVNASSSEAFLIGANYLGKPKEQIDGYTMHANYI FWRNTNPIQLSSYSLFDMSKFPLKLRGTAVMSLKENQINDMIYSLLEKGRLIIRENNR VVVSSDILVNN

FIGURE 36

KSFKTIVESCGNYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA

AGVIRSIFARTLDAANHSIPDLQRAAVTILDGISEQSLRLVDAMVYTSDLLTNSVIIM AYVTGGLVQQTSQWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGV FDIVKGQIQVASDNIKDCVKCFIDVVNKALEMCIDQVTIAGAKLRSLNLGEVFIAQSK GLYRQCIRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDS FTNGAIVGTPVCVNGLMLLEIKDKEQYCALSPGLLATNNVFRLKGGAPIKGVTFGEDT VWEVQGYKNVRITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVS DLLTNMGIDLDEWSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAECEEEIDET CEHEYGTEDDYQGLPLEFGASAETVRVEEEEEEDWLDDTTEQSEIEPEPEPTPEEPVN QFTGYLKLTDNVAIKCVDTVKEAQSANPMVIVNAANIHLKHGGGVAGALNKATNGAMQ KESDDYIKLNGPLTVGGSCLLSGHNLAKKCLHVVGPNLNAGEDIQLLKAAYENFNSQD ILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMDYLDNLKPRVEA PKQEEPPNTEDSKTEEKSVVQKPVDVKPKIKACIDEVTTTLEETKFLTNKLLLFADIN GKLYHDSQNMLRGEDMSFLEEDAPYMVGDVITSGDITCVVIPSKKAGGTTEMLSRALK KVPVDEYITTYPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEILGTVSWNLR EMLAHAEEARKLMPICMDVRAIMATIQRKYKGVKIQEGIVDYGVRFFFYTSKEPVASI ITKLNSLNEPLVTMPIGYVTHGFNLEEAARCMRSLKAPAVVSVSSPDAVTTYNGYLTS SSKTSEEHFVETVSLAGSYRDWSYSGQRTELGVEFLKRGDKIVYHTLESPVEFHLDGE VLSLDKLKSLLSLREVKTIKVFTTVDNTNLHTQLVDMSMTYGQQFGPTYLDGADVTKI KPHVNHEGKTFFVLPSDDTLRSEAFEYYHTLDESFLGRYMSALNHTKKWKFPQVGGLT SIKWADNNCYLSSVLLALQQLEVKFNAPALQE

FIGURE 37

KSFKTIVESCGNYKVTKGKPVKGAWNIGQQRSVLTPLCGFPSQA AGVIRSIFARTLDAANHSIPDLQRAAVTILDGISEQSLRLVDAMVYTSDLLTNSVIIM AYVTGGLVQQTSQWLSNLLGTTVEKLRPIFEWIEAKLSAGVEFLKDAWEILKFLITGV FDIVKGQIQVASDNIKDCVKCFIDVVNKALEMCIDQVTIAGAKLRSLNLGEVFIAQSK GLYRQCIRGKEQLQLLMPLKAPKEVTFLEGDSHDTVLTSEEVVLKNGELEALETPVDS FTNGAIVGTPVCVNGLMLLEIKDKEQYCALSPGLLATNNVFRLKGGAPIKGVTFGEDT VWEVQGYKNVRITFELDERVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVS DLLTNMGIDLDEWSVATFYLFDDAGEENFSSRMYCSFYPPDEEEEDDAECEEEEIDET CEHEYGTEDDYQGLPLEFGASAETVRVEEEEEEDWLDDTTEQSEIEPEPEPTPEEPVN QFTGYLKLTDNVAIKCVDTVKEAQSANPMVIVNAANIHLKHGGGVAGALNKATNGAMQ KESDDYIKLNGPLTVGGSCLLSGHNLAKKCLHVVGPNLNAGEDIQLLKAAYENFNSQD ILLAPLLSAGIFGAKPLQSLQVCVQTVRTQVYIAVNDKALYEQVVMDYLDNLKPRVEA PKQEEPPNTEDSKTEEKSVVQKPVDVKPKIKACIDEVTTTLEETKFLTNKLLLFADIN GKLYHDSQNMLRGEDMSFLEEDAPYMVGDVITSGDITCVVIPSKKAGGTTEMLSRALK KVPVDEYITTYPGQGCAGYTLEEAKTALKKCKSAFYVLPSEAPNAKEEILGTVSWNLR EMLAHAEEARKLMPICMDVRAIMATIQRKYKGVKIQEGIVDYGVRFFFYTSKEPVASI ITKLNSLNEPLVTMPIGYVTHGFNLEEAARCMRSLKAPAVVSVSSPDAVTTYNGYLTS SSKTSEEHFVETVSLAGSYRDWSYSGQRTELGVEFLKRGDKIVYHTLESPVEFHLDGE VLSLDKLKSLLSLREVKTIKVFTTVDNTNLHTQLVDMSMTYGQQFGPTYLDGADVTKI KPHVNHEGKTFFVLPSDDTLRSEAFEYYHTLDESFLGRYMSALNHTKKWKFPQVGGLT SIKWADNNCYLSSVLLALQQLEVKFNAPALQE

FIGURE 38

MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARE

HLKNGTCGLVELEKGVLPQLEQPYVFIKRSDALSTNHGHKVVELVAEMDGIQYGRSGI

TLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSYGIDLKSYDLGDELGTDPIEDYEQN

WNTKHGSGALRELTRELNGGVVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQ

LDYIESKRGVYCCRDHEHEIAWFTERSDKSCEHQTPFEIKSAKKFDTFKGECPKFVFP

LNSKVKVIQPRVEKKKTEGFMGRIRSVYPVASPQECNNMHLSTLMKCNHCDEVSWQTC

DFLKATCEHCGTENLVIEGPTTCGYLPTNAVVKMPCPACQDPEIGPEHSVADYHNHSN

IETRLRKGGRTRCFGGCVFAYVGCYNKRAYWVPRASADIGSGHTGITGDNVETLNEDL

LEILSRERVNINIVGDFHLNEEVAIILASFSASTSAFIDTIKSLDYKSFKTIVESCG

FIGURE 39

MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEARE

HLKNGTCGLVELEKGVLPQLEQPYVFIKRSDALSTNHGHKVVELVAEMDGIQYGRSGI

TLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSYGIDLKSYDLGDELGTDPIEDYEQN

WNTKHGSGALRELTRELNGGVVTRYVDNNFCGPDGYPLDCIKDFLARAGKSMCTLSEQ

LDYIESKRGVYCCRDHEHEIAWFTERSDKSCEHQTPFEIKSAKKFDTFKGECPKFVFP

LNSKVKVIQPRVEKKKTEGFMGRIRSVYPVASPQECNNMHLSTLMKCNHCDEVSWQTC

DFLKATCEHCGTENLVIEGPTTCGYLPTNAVVKMPCPACQDPEIGPEHSVADYHNHSN

IETRLRKGGRTRCFGGCVFAYVGCYNKRAYWVPRASADIGSGHTGITGDNVETLNEDL

LEILSRERVNINIVGDFHLNEEVAIILASFSASTSAFIDTIKSLDYKSFKTIVESCG

FIGURE 40

MSDNGPQSNQRSAPRITFGGPTDSTDNNQNGGRNGARPKQRRPQ
GLPNNTASWFTALTQHGKEELRFPRGQGVPINTNSGPDDQIGYYRRATRRVRGGDGKM
KELSPRWYFYYLGTGPEASLPYGANKEGIVWVATEGALNTPKDHIGTRNPNNNAATVL
QLPQGTTLPKGFYAEGSRGGSQASSRSSSRSRGNSRNSTPGSSRGNSPARMASGGGET
ALALLLLDRLNQLESKVSGKGQQQQGQTVTKKSAAEASKKPRQKRTATKQYNVTQAFG
RRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTY
HGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPKKDKKKKTDEAQPLPQRQKKQPT

VTLLPAADMDDFSRQLQNSMSGASADSTQA

FIGURE 41

MFIFLLFLTLTSGSDLDRCTTFDDVQAPNYTQHTSSMRGVYYPD EIFRSDTLYLTQDLFLPFYSNVTGFHTINHTFDNPVIPFKDGIYFAATEKSNVVRGWV FGSTMNNKSQSVIIINNSTNVVIRACNFELCDNPFFAVSKPMGTQTHTMIFDNAFNCT FEYISDAFSLDVSEKSGNFKHLREFVFKNKDGFLYVYKGYQPIDVVRDLPSGFNTLKP IFKLPLGINITNFRAILTAFSPAQDTWGTSAAAYFVGYLKPTTFMLKYDENGTITDAV DCSQNPLAELKCSVKSFEIDKGIYQTSNFRVVPSGDVVRFPNITNLCPFGEVFNATKF PSVYAWERKKISNCVADYSVLYNSTFFSTFKCYGVSATKLNDLCFSNVYADSFVVKGD DVRQIAPGQTGVIADYNYKLPDDFMGCVLAWNTRNIDATSTGNYNYKYRYLRHGKLRP FERDISNVPFSPDGKPCTPPALNCYWPLNDYGFYTTTGIGYQPYRVVVLSFELLNAPA TVCGPKLSTDLIKNQCVNFNFNGLTGTGVLTPSSKRFQPFQQFGRDVSDFTDSVRDPK TSEILDISPCSFGGVSVITPGTNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYST GNNVFQTQAGCLIGAEHVDTSYECDIPIGAGICASYHTVSLLRSTSQKSIVAYTMSLG ADSSIAYSNNTIAIPTNFSISITTEVMPVSMAKTSVDCNMYICGDSTECANLLLQYGS FCTQLNRALSGIAAEQDRNTREVFAQVKQMYKTPTLKYFGGFNFSQILPDPLKPTKRS FIEDLLFNKVTLADAGFMKQYGECLGDINARDLICAQKFNGLTVLPPLLTDDMIAAYT AALVSGTATAGWTFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKQIANQFNKAIS QIQESLTTTSTALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDKVEAE VQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYH LMSFPQAAPHGVVFLHVTYVPSQERNFTTAPAICHEGKAYFPREGVFVFNGTSWFITQ RNFFSPQIITTDNTFVSGNCDVVIGIINNTVYDPLQPELDSFKEELDKYFKNHTSPDV DLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYVWLGFIA GLIAIVMVTILLCCMTSCCSCLKGACSCGSCCKFDEDDSEPVLKGVKLHYT